



Koning Corporation

- NEWS RELEASE -

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Koning CT for Breast and Extremities Launched at Radiological Society of North America Meeting...RSNA

West Henrietta, New York... Koning Corporation today announced the introduction of its first Cone Beam CT system, **Koning CT for Breast and Extremities**, at the Radiological Society of North America Meeting (RSNA) in Chicago.

Utilizing a cone-shaped X-ray beam and a digital flat panel detector for volumetric data capture, Cone Beam CT combines the advantages of digital projection imaging and computed tomography, rapidly producing clinically significant, high resolution, 3D images for selected body anatomy. Unlike current x-ray projection imaging which produces 2D images with limited contrast and spatial resolution (unable to detect the smallest tumors), Cone Beam CT generates 3D images with true isotropic resolution and detects tumors and other diseases in their earliest stages.

Koning CT for Breast and Extremities provides exceptional image quality at lower dose levels than current CT units. **In a pilot study at the University of Rochester Medical Center**, Koning CT for Breast and Extremities has demonstrated its potential to outperform mammography with superior image quality and comprehensive diagnostic information at radiation levels comparable to a two view mammogram.

More than 205,000 new breast cancer cases are diagnosed and nearly 40,000 women die of breast disease each year in the United States. While mammography is currently the most effective tool available for the early detection of breast cancer, it fails to initially demonstrate as many as 30% of cancers mainly due to poor low contrast resolution and the superimposition of structures associated with 2D projection imaging. Additionally, many breast cancers that are detected with mammography are not found early enough to cure the disease. At the same time, mammography has a very high false positive rate and nearly 80% of the 1.3 million breast biopsies performed annually in the US to evaluate suspicious mammographic findings are benign, burdening patients with "high" anxiety and the healthcare system with tremendous cost.

Koning CT for Breast and Extremities consists of a cushioned exam table with a cutout in the center combined with a horizontal X-ray assembly. The patient lies face down and a single breast is suspended through the opening. Hundreds of images of the entire breast are taken in a 360 degree circle in 10 seconds without compression of the tissue. Volumetric images are then presented on high resolution displays in multi-slice/ multiplaner format as well as full 3D reconstruction.

The pilot study at the University of Rochester Medical Center is producing exciting results.



“We are getting very fine image slices through the breast, which provide us with fabulous information and we are seeing tiny calcifications with this machine, which is unbelievable” said **Dr. Wende Logan-Young** a principle investigator.

“We have one case in which a cancer shows up phenomenally well using this new imaging system, whereas when you look at the same lesion on a mammogram it is hard to detect,” said **Avice O’Connell, M.D.**, director of women’s imaging for the University of Rochester Medical Center and co-principal investigator on the study.

Cone Beam CT technology was developed by **Ruola Ning PhD**, a professor of Radiology at the University of Rochester Medical Center and President and Founder of Koning Corporation. “Research on Cone Beam CT has been extensively supported by the National Institutes of Health and National Cancer Institute at both the University of Rochester Medical Center and Koning Corporation. We are making tremendous progress with Cone Beam CT technology to improve the detection and diagnosis of numerous diseases. Our hope is to improve health outcomes for millions of Americans” said **Dr. Ning**. “Koning CT to improve the detection and diagnosis of breast cancer will now be a commercial reality. Scanners that we are developing for other diseases and clinical applications will be available within the next 2 to 4 years” he said.

Koning CT for Breast and Extremities is currently available only for investigational use in the US

According to **John Neugebauer**, Koning’s Chief Executive Officer, the Company has already begun preparing the detailed data required for FDA submission and hopes to gain clearance and begin selling units to key breast imaging centers throughout the US next year.

About Koning Corporation

Koning Corporation develops advanced medical imaging systems which combine the advantages of Digital X-ray and Computed Tomography called **Cone Beam CT**. Producing true isotropic, high spatial resolution images, Cone Beam Scanners are faster, smaller and less expensive to own and operate. The Company’s first system, **Koning CT for Breast and Extremities** (hands feet, elbows etc.) has demonstrated its ability to provide superior diagnostic information and the potential to ellipse the performance of current methods to become a new standard in medical imaging. Founded in 2002, Koning is developing additional applications for its unique, patented technology to include angiography, lung cancer, treatment planning and minimally invasive diagnosis and treatment options. Koning is a fast growing privately held company with headquarters in West Henrietta New York. Visit Koning Corporation at www.koningcorporation.com

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