TRUE 3D IMAGING | NO COMPRESSION | LOW DOSE





A BETTER WAY OF BREAST IMAGING



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Contact us

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5555 Oakbrook Parkway, Suite 640 | Norcross, GA | US 30093

In this binder you'll find a clear illustration of the limitations of the current state of breast imaging, including cancer miss rate, compression and 2D mammography resulting in overlapping structures that hide cancers, inconclusive results leading to additional imaging processes, and the low level of efficiency in the process this imaging continuum delivers. Conversely, Koning has brought to the market a new and innovative approach to breast imaging that will mitigate all of the previously

mentioned issues that have, unfortunately, come to be the industry standard.

Koning is introducing the first FDA-cleared breast imaging technology that eliminates the need for breast compression and introduces *true* isotropic 3D imaging technology to the breast imaging space. Patients are typically adverse to having mammograms due to the pain associated with compression - that discomfort is eliminated with the Koning Vera Breast CT (KBCT). Radiologists will appreciate a device that illustrates abnormalities more directly and in less time than it takes to interpret the screening mammogram, the diagnostic mammogram, and the ultrasound. In addition, patients will be less likely to miss exams due to the ease and comfort of prone positioning on the Koning table. Administrators will prefer KBCT because of attractive financials rivaling diagnostic mammograms.

We are happy to introduce this technology to you and look forward to future conversations, at which point we can bring KBCT into your clinic. Please feel free to contact us with any questions while reviewing the data.

Sincerely,

Koning Corporation

info@koningcorporation.com www.koninghealth.com

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ADVANCING BREAST IMAGING

TECHNOLOGY

HISTORY OF BREAST IMAGING TECHNOLOGY

Since the beginning of widespread use of mammogram machines in the 1950s, little progress has been made on breast imaging technology. Rather, different forms of technology started to be used in order to offset the lack in accuracy of mammography.



1960s - 1980s

During this time period, film/screen analog imaging was commonly used. An oblique mammographic view was introduced in the 70s. This was a single-view screening process, however, and soon a two-view technique was used. Two views found more cancers and resulted in less callbacks. In the 80s, screening mammography became more common.



1990s - 2000s

In the early 90s, federal regulations were placed on mammography processes with the implementation of MQSA. Equipment and facilities were inspected closely in order to standardize exams. The conversion to digital mammography happened slowly during this time period.

2010s

By the 2010s, digital mammography





became the most prominent form of mammogram examinations (typically called full-field digital mammography, or FFDM). Limited sweep angle linear breast tomography was also introduced during this time period.*

*None of these changes eliminated compression, and they are still completely reliant on 2-dimensional imaging capture.

BREAST CANCER DETECTION

CURRENT STATE OF THE INDUSTRY

BREAST IMAGING TECHNOLOGY TODAY

As previously mentioned, FFDM and DBT are the main forms of breast screening options available. When radiologists aren't able to give a clean bill of health in good conscience, however, patients can be sent for ultrasounds and MRI. And yet, breast imaging continues with 2D projection imaging and compression, resulting in well-documented limitations.



PATIENT PROBLEMS

Despite its shortcomings, mammography is still recommended annually for women over 40. However, due to the pain of compression and inconclusive results, patients often end up skipping their yearly exams. This is especially prevalent with women who have dense breasts, as they usually need to return for follow-up imaging.

WHAT WE PROPOSE: CT TO CATCH HIDDEN CANCERS Why breast CT? CT allows for isotropic imaging. Isotropic imaging is not available with FFDM or DBT mammography and allows for measuring, viewing and co-registration of areas of interest in multiple planes. These planes are Axial, Sagittal, and Coronal. FFDM and DBT, on the other hand, require physicians to extrapolate data from 2D projection images.

IMAGING MODALITIES USED TODAY HAVE NOT SOLVED THE EARLY STAGE BREAST CANCER DETECTION PROBLEM

TECH TODAY DESCRIPTION LIMITATIONS

MAMMOGRAPHY

MRI

Current standard of care for screening.

2D projection imaging causing tissue overlap. Painful procedure for patients (breast compression).

DIGITAL BREAST TOMOSYNTHESIS (DBT)	Slightly better form of mammography. Limited angle linear tomography. Pseudo-3D imaging.	Pseuc require Painfu (br
ULTRASOUND	Used in conjunction with mammogram or DBT.	L Unable Hi SC
	Primarily used in last step of	Expe

do 3D – (non isotropic) es extrapolation vs. coregistration. procedure for patients east compression).

imited resolution. to detect calcifications. ighly dependent on onographer's skills.

ensive, lengthy exam. High false positive rate. imaging to determine extent Cannot easily find calcifications. Gadolinium controversy.

OVERARCHING PROBLEM

of disease.

According to the American Cancer Society, there is a one in eight chance that a woman will develop breast cancer during her lifetime - almost 290,000 women are diagnosed **yearly** with invasive breast cancer.

Breast cancer is the second leading cause of death in women, having reached 43K deaths in 2022.

This is unacceptable.

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THE KONING ADVANTAGE 06



KONING'S PUSH FOR BREAST CT: OUR PROPOSAL

WHY DOES KONING USE CT FOR BREAST IMAGING?

CT imaging is the only imaging modality that can capture complete images of the body, producing an isotropic data set which allows for images unencumbered by overlapping structures. CT imaging also provides radiologists with the ability to co-register findings in multiple planes. Neither FFDM nor DBT provide these advanced imaging management tools. Instead they require the radiologist to extrapolate information from the limited data acquired by FFDM or DBT.

WHY CT?



Breast CT provides the radiologist with tools similar to whole body CT, but with radiation dose 4-8 times lower than whole body CT and dose equivalent to conventional mammograms

CT is the most common form of imaging for cancer detection



2.

Non-compressed isotropic images eliminate overlapping structures



Improved region of interest identification in 3D and MPR

Common to CT imaging, contrast is utilized when necessary



5.

3D guided biopsy-ready. Replaces stereotactic biopsy and requires 50% less dose



CLINICAL ADVANTAGES

PATIENT ADVANTAGE

KONING BENEFITS

Current mammogram techniques are falling short of expectations. With documented limitations, it is absurd that more steps haven't been taken to mitigate these issues. The benefits of Koning Breast CT are evident; KBCT rotates 360° around the breast, acquiring a true isotropic 3D dataset in 7 seconds. For the first time in breast imaging history, KBCT has introduced co-registration in multiple planes using TRUE 3D volumetric imaging.

NO COMPRESSION, NO PAIN, NO DEFORMATION

Breast presented in unhindered, natural form making for a more comfortable and accurate exam experience

QUICK SCAN

WHAT PEOPLE ARE SAYING

"Mammograms aren't the most comfortable experience. Koning's Breast CT was much more comfortable with no compression. Quick and completely painless." -Breast CT Patient

"Since I have very dense breasts, I generally do not like mammograms because of the pain and compression. I went to a facility in Sarasota, Florida where I did a CT scan on the 3D KBCT (Koning) machine. The process was so quick and seamless." -Breast CT Patient

"I wish every woman could enjoy the

OTHER BENEFITS INCLUDE

- Compelling economics
- Higher throughput
- High quality, true isotropic 3D imaging giving you reliable exam results
- Ability to perform biopsies
- Capital equipment efficiency replaces need for multiple devices
- Small footprint, limited facility modifications
- Superior detection capabilities



Fast scan time of only 7 seconds

SAFE, LOW DOSE

Radiation is in range of diagnostic mammograms

FULL 3D IMAGE

No extra views needed. Receive all information with one scan; high quality imaging allows patient to be confident in the results she receives

NO TISSUE OVERLAP

Better chance to find lesions as small as 2mm. This is especially beneficial in patients with dense tissue

EASY TO IMAGE ALL BREAST TYPES

Small, large, dense, implants (without displacement views)

ALLOWS FOR ACCURATE DIAGNOSIS

incredible experience I enjoyed at my recent KBCT exam!" -Breast CT Patient

"If we can find breast cancer when it's really small, before it spreads from the breast, we can save a woman's life. The Koning Breast CT is a true 3dimensional image of the breast. Cancers have nowhere to hide. There's no way for overlapping tissue to be in the way from every angle. The images are very high quality and show cancers well."

-Dr. Etta Pisano Chief Research Officer, American College of Radiology



CURRENT LIMITATIONS OF FFDM AND DBT

- Breast Compression (inherently excludes chest wall)
- Compression artifacts
- Ambiguity of distribution
- Measurement inaccuracies
- Difficulty in defining extent of disease
- Poor spatial representation of ROI

With one exposure, an entire breast image is acquired in isotropic 3D, allowing potential abnormalities to be visualized without additional views.



ACCURACY

CLINICAL COMPARISON DATA FROM FDA AND CFDA TRIALS

Modality AUC

AUC of CBBCT is higher than digital mammography. The difference is larger than 0.05 with statistical significance.

CE-CBBCT	0.9337	Note: AUC difference larger
Mammography	0.8136	than 0.05 is considered clinically significant
Difference	0.1201	mprovement.

KBCT vs. FFDM	CBBCT	Mammography	Difference
Average Sensitivity (%)	85.63	77.66	7.97
Average Specificity (%)	79.47	73.10	6.37
Average Accuracy (%)	82.03	75.00	7.03

CE KBCT vs. FFDM CE-CBBCT Mammography Difference

		the second second	
Average Sensitivity (%)	92.73	76.10	16.63
Average Specificity (%)	75.24	71.43	3.81
Average Accuracy (%)	84.86	74.00	10.86

KONING'S WORK TO DRIVE THE BREAST IMAGING INDUSTRY INTO THE FUTURE

The breast imaging market has long awaited a technology that removes painful compression and produces a true 3D image at low dose. The Koning Vera Breast CT provides this critical change. Clinical outcomes and financial value will improve by integrating breast CT while providing a better experience overall to the patient. Breast imaging facilities that are enthusiastic about providing the best service can make this technology available now.

FDA APPROVAL

Koning is the first Breast CT imaging device to receive FDA approval for commercial, diagnostic use.

REIMBURSEMENT

The AMA has added 6 new breast CPT codes to allow for clinic reimbursement. Reimbursement has already been accepted by both private payors and Medicare.

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PERFECTING THE TECHNOLOGY

The market is poised for expansion. Koning is ready to bring the Koning Vera Breast CT (KBCT) to any clinic that purchases it, allowing those clinics to proudly say they provide cutting-edge breast imaging examinations to their patients.

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YOUR FUTURE WITH KONING

KONING IS HERE TO HELP ON-BOARD YOUR PRACTICE



Reimbursement & Biling

- Training for billers
- Playbook and denial response templates and scripts to work with payors
- Dedicated reimbursement consultant to guide you through any issues
- Whitepapers, clinical data, and case studies





Training

- Technical training for rad techs
- Script writing and indications of use for referring physicians
- Large image library for clinical review

Presentations

- Presentations to payors on clinical benefit and value based healthcare
- Classes for network referring physicians



Marketing Assets

Graphics, videos, and other marketing assets
Personalized brochures and pamphlets to place in your office
Localized marketing campaigns

MARKET EXPANSION

US MARKET IS POISED FOR RAPID EXPANSION AFTER RECEIVING BREAST CT CPT CODES

Key Milestones

- AMA application directly supported and submitted by the American College of Radiology
- 6 CPT codes approved in May 2020 for both bi-lateral and uni-lateral scans, with and without

00000

contrast

- Codes published in Oct 2020, went live January 2021
- CMS has published national Medicare reimbursement rates dissemination to local MACs remains underway

KONING VERA BREAST CT

3 PROCEDURES, 3 OPTIONS TO FIND BREAST CANCER EARLY



NORMAL SCAN'

3 min from time patient enters exam room

CONTRAST-ENHANCED SCAN²

BIOPSY SCAN³

CPT CODES

Unilateral without contrast: 0633T Bilateral without contrast: 0636T

Avg private payor Reimbursement* \$350

National Medicare Avg Reimbursement \$218.53

5-7 min from time patient enters exam room

Up to 20 min from time patient enters exam room

CPT CODES

Unilateral with contrast: 0634T Bilateral with contrast: 0637T

Avg private payor Reimbursement* \$600

National Medicare Average Reimbursement \$423.88

CPT CODES First lesion: 19081 Each additional lesion: +19082

Avg private payor Reimbursement* \$850

National Medicare Average Reimbursement First lesion: \$625.79 Each additional lesion: \$504.53

Onsite staffing requirement: Specialist doctor (E.g. Breast radiologist, breast surgeon)

Onsite staffing requirement: Radiology Tech Nurse

Onsite staffing requirement: Doctor or PA

¹ Primarily Bilateral ² Either Unilateral or Bilateral ³Predominantly Unilateral *Reimbursement rates will vary based on location and payor

FINANCIAL ADVANTAGE

REIMBURSEMENT

The AMA has granted 6 dedicated CPT codes for Breast CT. The reimbursement rates vary based on location and payor group. For more in depth analysis, Koning can provide a revenue forecast calculator to determine what your clinic's revenue will be with the use of Koning Vera Breast CT.

Exams,LowAverageHighMedicare*ReimbursementReimbursementReimbursement

Unilateral Dx, Non-CE	\$150	\$218.53	\$267
Bilateral Dx, Non-CE	\$150	\$218.53	\$267
Unilateral Dx, With Contrast	\$225	\$423.88	\$564
Bilateral Dx, With Contrast	\$225	\$423.88	\$564
Biopsy	\$400	\$625.79	\$785

INDICATIONS FOR USE AMA CPT CODES 0633T- 0638T

Below are indications for use and suggested guidelines based on the Breast CT CPT codes provided by the AMA.

<u>Reasoning:</u> Incomplete or Negative (when being recalled; use of ultrasound, or need additional views)

Medical Necessity:

<u>Reasoning:</u> Benign or Probably Benign (when nodules, densities, displaced views, findings are present or any diagnostic follow up)

Medical Necessity:

<u>Reasoning:</u> Suspicious or Highly Suspicious (when suspicious nodules, abnormality, biopsy required, any diagnostic follow up)

Medical Necessity:

Breast Density **R92.2** (Mirco) Calcifications **R92.0/ R92.1** Abnormal or Incomplete findings **R92.8** Sign or Symptoms **N64.59** Other Specified Disorder **N64.89** History of Breast Cancer **Z85.3** Strong Family History **Z80.3** Family Hx of Ovarian Cancer **Z80.41** Genetic Suspicious of BC **Z15.01** Implants **Z98.82** Breast Cyst N60.01/N60.02 Fibroadenosis N60.21/N60.22 Nodules N63.1X/ N63.2X/ N63.3X/ N63.4X Benign nodule D24.1/D24.2 Breast Density R92.2 (Mirco) Calcifications R92.0/ R92.1 Asymmetries, Scars, Abnormal Findings R92.8 Sign or Symptoms N64.59 Other Specified Disorder N64.89 History of Breast Cancer Z85.3 Strong Family History Z80.3 Genetic Suspicious BC Z15.01 Implants Z98.82

Breast Cyst N60.01/ N60.02/ N60.11/ N60.12 Fibroadenosis N60.21/N60.22 Nodules N63.1X/ N63.2X/ N63.3X/ N63.4X/ N60.4X Malignancies D05.0X/D05.1X/C50.XXX Benign nodule **D24.1/D24.2** Breast Density **R92.2** (Mirco) Calcifications R92.0/ R92.1 Asymmetries, Scars, Abnormal Findings **R92.8** Axilla/Lymph N63.3X/R59.9/C77.3 Sign or Symptoms N64.59 Other Specified Disorder N64.89 History of Breast Cancer **Z85.3** Strong Family History **Z80.3** Genetic Suspicious **BC Z15.01** Implants **Z98.82**

FUTURE OF BREAST IMAGING

Based on Patient Risk Profile



Source: MQSA/FDA, NCI, Census data, Siemens and Koning market survey results 2022 ¹ Implants present higher risks of rupture and multi-dose radiation ² Contrast/Non-Contrast depending on other risk factors ³ Up to clinic discretion

Koning Vera Breast CT can serve 76.7M US women

Compliant, High Risk

Compliant, Low Risk, unable to manage pain/discomfort Non-Compliant, High Risk

Non-Compliant, High Risk

21.2M women10.4M women

20.3M women

24.8M women

92% of the population

FACILITIES PLANNING KBCT CAN BE INSTALLED IN MOST STEREOTACTIC BIOPSY ROOMS



KBCT SPECS

- Electrical: 220V 35 Amp Sgl.¹
- Table Capacity: 441 lbs.
- Patient Table Height: 28" to 50" for biopsy
- **Room Size:** 10 ft. x 14 ft.²
- Resolution:
 - Voxel size in Standard mode = (0.19mm)³
 - Voxel size in High Resolution
 mode = (0.1mm)³



Other electrical configurations available
 4200 cm x 3700 cm = 14 ft x 12 ft

PRODUCT COMPARISON SHEET



Note: feature options are subject to change.

In 2022, Koning completed v2.0 of our Koning Breast CT and rebranded to Koning Vera Breast CT. Within the product hierarchy, we offer two different iterations of Koning Vera: Vera Complete, and Vera Prime3D.

Below is a comparison of the two versions, the features included, and the purpose of each of the features.

FEATURE	PURPOSE	Image: Constrained state Image: Constrained state	PRIME3D
7 second scanning per breast	Rapid throughput		
No compression	Patient Comfort		
300 images per breast	Complete data set for MPR		
PACS integration	DICOM connectivity		
Table Separation	Allows Large breast imaging		
Calcium image improvement	Optional accessory		
Table Elevation	Required for biopsy		
3D biopsy targeting SW	Accurate localization		
Doors open on both sides	Patient access for biopsy		
Contrast Image SW	Allows CE BCT		
Neoadjuvant Therapy Monitoring	Use of contrast imaging		
Post Surgical Follow up Imaging	Pain free and Isotropic 3D		

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KONING CASE STUDIES

In the following pages you'll notice a clear difference between the images collected from conventional mammograms and KBCT. KBCT rotates 360° about the breast, acquiring a true isotropic 3D dataset in 7 seconds.

For the first time in breast imaging history, KBCT introduces coregistration in multiple planes using TRUE 3D volumetric imaging.

CASE STUDY #1

KBCT with contrast



Patient:

57 years old Dense Breast

Contrast-enhanced KBCT identifies multi-focal malignant masses in two different quadrants while mammography was negative.

Mammogram - LMLO



Mammogram - LCC



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CASE STUDY **#2**



Patient:

60 years old Pathology: Ductal Carcinoma in Situ

KBCT displays 3D distribution of the calcification clusters.



Mammogram - RCC



CASE STUDY #3

Patient:

61 years old. Small breast

Pathology: Invasive Ductal Carcinoma Grade 3 (Poorly differentiated)



Mammography has poor coverage. KBCT covers the whole breast including the chest wall and ribs. (b)(c)

KBCT fully visualizes the lesion and posterior tissue. (a)

Mammo - LCC vs. KBCT - transverse



Mammo - LMLO vs. KBCT - sagittal



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OTHER INFO YOU SHOULD KNOW

Koning Vera Breast CT FAQ

Koning is revolutionizing medical imaging through our advanced Computed Tomography technology. We believe our Koning Vera Breast CT (KBCT) will dramatically improve the way clinicians visualize and evaluate breast tissue, aiding in the optimization of early disease detection, diagnosis, intervention and treatment.

Our hope is to improve survival rates and outcomes for millions of patients around the world with the power and versatility of KBCT.

What is Koning Vera Breast CT?

Koning Vera Breast CT provides isotropically accurate images of the breast, allowing the detection of early stage cancers with NO BREAST COMPRESSION. The Koning device provides diagnostic and biopsy-guided exams with and without the use of contrast.

How is KBCT different from conventional mammograms?

Mammograms are painful due to breast compression. KBCT is a 3D breast imaging exam with no compression that takes only 7 seconds to complete. Mammograms are a 2-dimensional technology. For this reason, cancers are frequently missed, especially in dense breasts where tissue overlap obscures cancers.

Where are they built?

KBCT machines are made in the USA.



Is KBCT safe? How much radiation does it emit?

Radiation dose of Koning Vera Breast CT was measured to be in the same range as diagnostic mammograms. KBCT biopsy imaging dose was measured as a 50% reduction when compared to stereotactic biopsies.

Is Koning Vera Breast CT approved for use in the US?



After rigorous study, Koning Vera Breast CT obtained FDA PMA approval for both breast CT and 3D-guided biopsy. This is the highest bar of approval for the FDA.

I thought 3D mammography already existed – how is this different?

Compressional DBT has been marketed as 3D when, in fact, it is not true 3D. For an image to be true 3D it must be "isotropic" (the same from any angle). Breast CT is true 3D - the image can be viewed from any angle equally, which eliminates any overlapping structures. It acquires true 3D images without compression.



Where can I get this in the US?

At this time, KBCT is in clinical use in Knoxville, TN, Naples, FL, Norcross, GA, and Birmingham, AL

Is there reimbursement for the procedure?

Effective 1/2021, the American Medical Association provided Breast CT with 6 dedicated CPT codes. The codes are being accepted by both public and private payers.





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LET'S COMPARE BREAST IMAGING OPTIONS







NO COMPRESSION LOW RADIATION **DETECTS SMALL** TUMORS SAFE CONTRAST **ENHANCEMENT** LOW IMPLANT **RUPTURE RISK** DETECTS CALCIFICATION CLUSTERS (DCIS) DENSITY DISTRIBUTION

SPATIAL REPRESENTATION **OF STRUCTURES** LOW COST

> HIGH THROUGHPUT



KONING'S CLINICAL PARTNERS & ADVISORS

CLINICAL PARTNERS

Dr. Avice O'Connell - University of Rochester

Dr. Etta Pisano - Deaconess Hospital

SCIENTIFIC ADVISORY BOARD MEMBERS

Dr. John A. Cutrone - St. Francis/Emory

Healthcare

Harvard School of Medicine

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Medical Center

Dr. Richard Reaven - University of Maryland

Medical Center

Dr. Ioannis Sechopoulos - Radboud

University – Netherlands

Dr. Kristina Siddall - Bayview Imaging



FOR ANY ENQUIRIES CONTACT US

+44 20 3642 1175

info@euronoxxmedical.com

www.euronoxxmedical.com

35 Berkeley Square, Mayfair, London, W1J 5BF