



Astler Medicss

Team of Bio-Medical Engineers

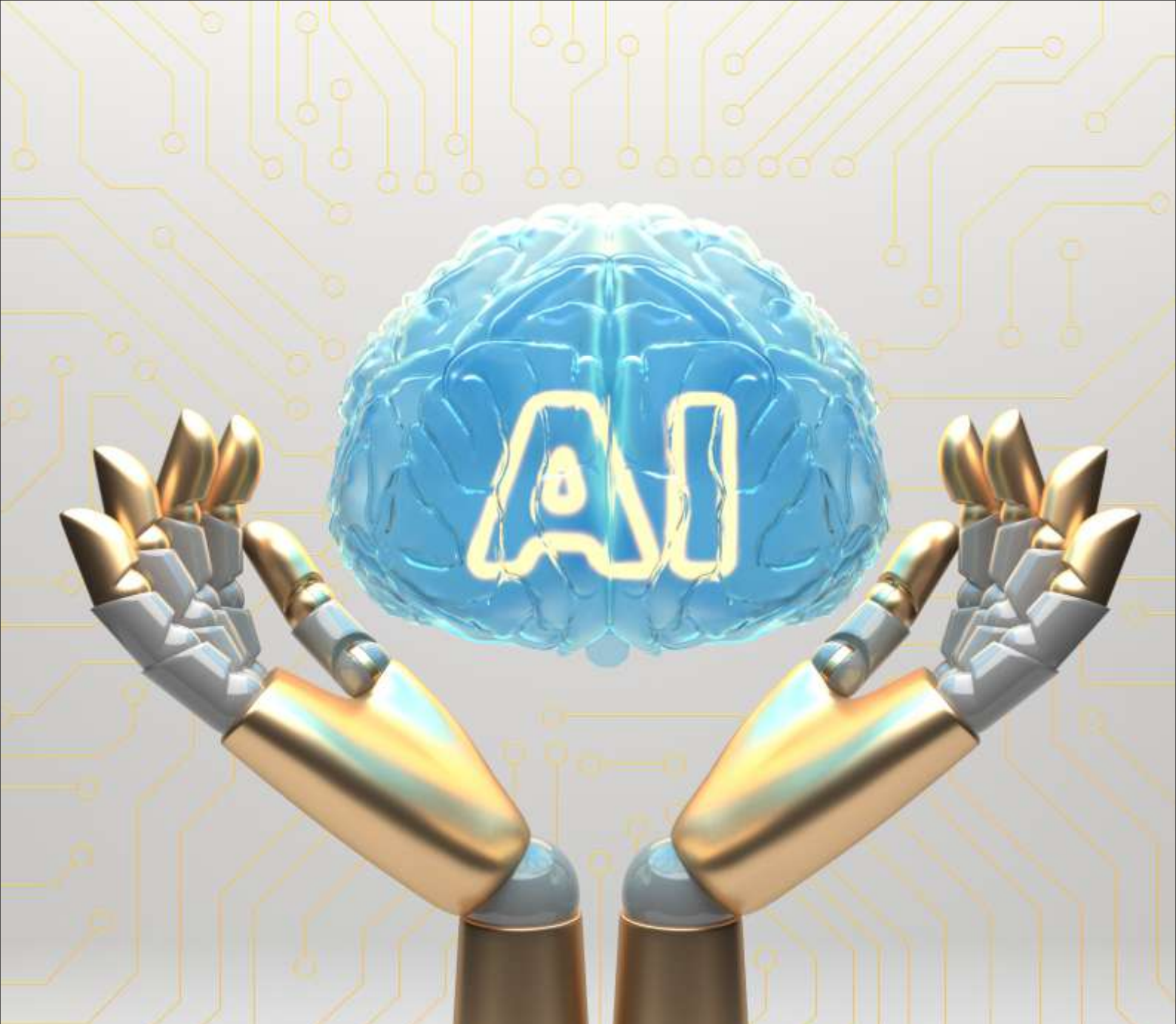
ASIA | MIDDLE EAST | AFRICA

Ai

Ai powered RadioDiagnosis

www.starbiomedicss.com

A Astler
Imaging
AI & ROBOTICS



“Revolutionizing Radiology”

**Where Evolution Meets Innovation!
From X-rays to AI-powered diagnostics,
radiology has come a long way.**

**With Artificial Intelligence, we’re not
just evaluating images-we’re unlocking
new insights, improving accuracy, and
transforming patient care.**

Ai Powered Solutions

SwiftMR™

Ai-Powered MRI Enhancement Solution
Faster Imaging, Exceptional Quality

ClariCT.AI

Ultra-Low-Dose | Ai CT Image
Denoising Solution

ClariACE

AI-powered Iodine Contrast
Enhancing solution

ClariPET-CT

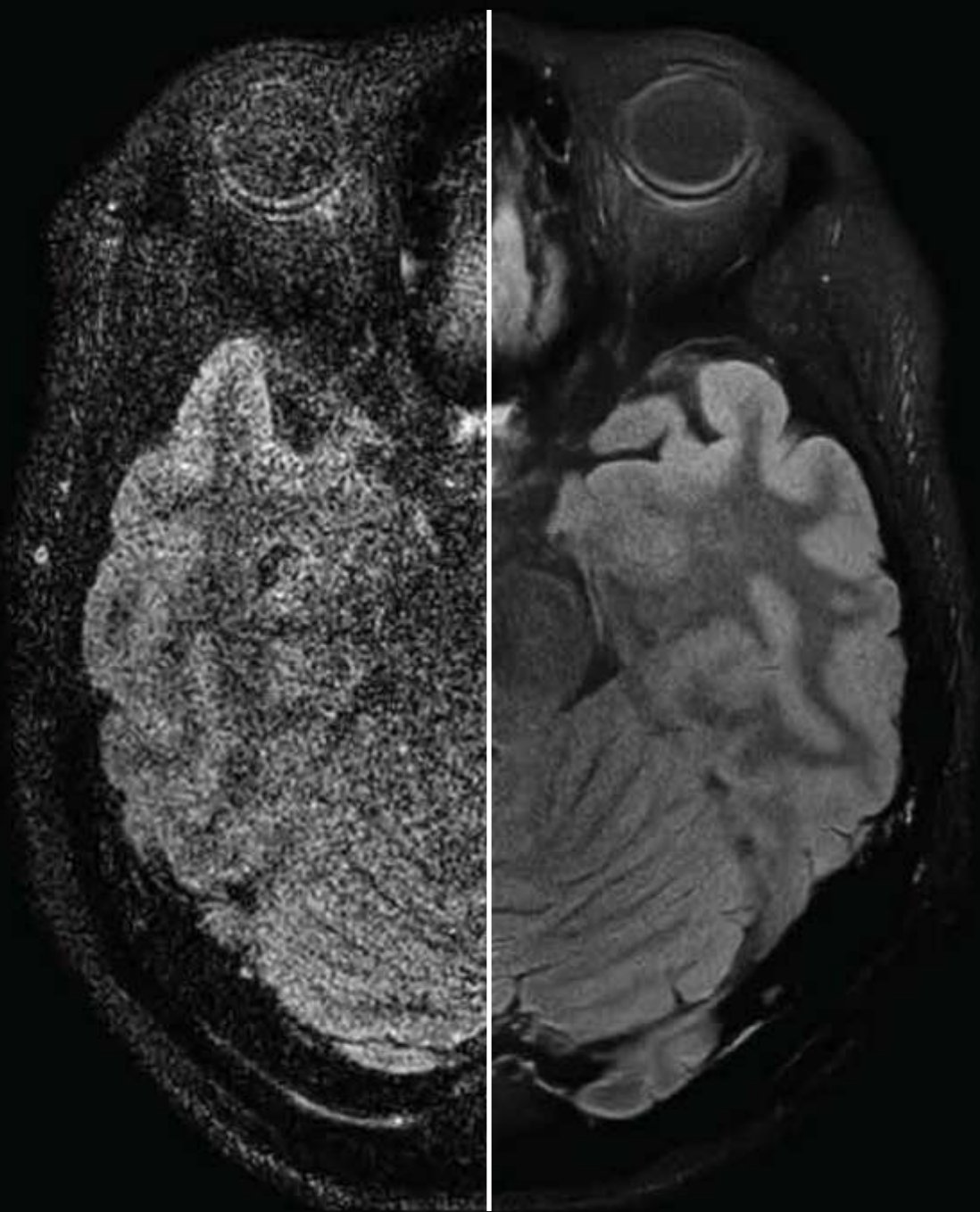
AI-powered PET-CT Denoising
Solution

Velmeni.AI

Imaging Ai | 3D Verify | Voice | Claims Ai
The Only Complete AI Platform for Imaging,
Claims, Voice & VR in Digital Dentistry

SwiftMR™




AI-Powered MRI Enhancement Solution
Faster Imaging, Exceptional Quality



Introducing **SwiftMR™**

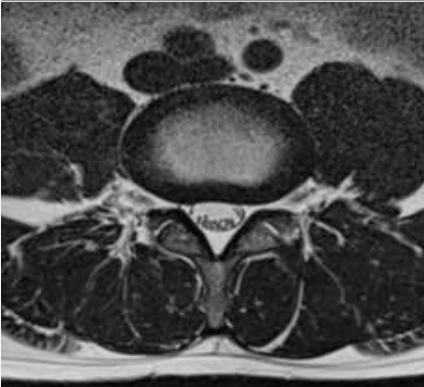
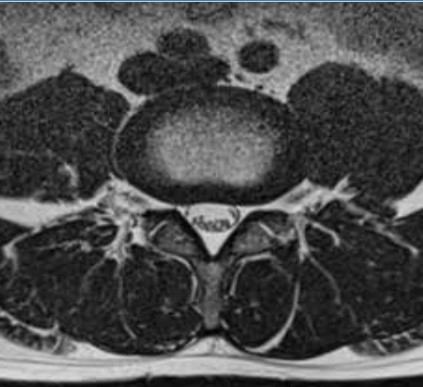
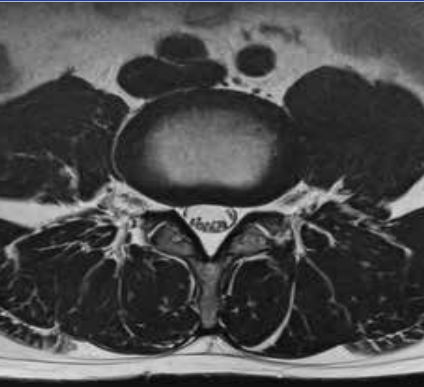
The Next Generation MRI Enhancement Software

SwiftMR™ is a transformative solution that enables MRI scan time reduction, enhancing patient comfort without sacrificing image quality. Developed with a cutting-edge deep learning model, SwiftMR™ is designed to integrate seamlessly with existing MRI systems.

 <p>Enhanced Efficiency</p> <p>Proven to enable scan time reduction by up to 50%*, significantly boosting patient throughput.</p>	 <p>Exceptional Image Quality</p> <p>Enhances image quality, making scans from even legacy systems clearer and more detailed.</p>	 <p>Comprehensive Coverage</p> <p>FDA-510(k)-cleared for all body parts and sequences, and compatible with all manufacturers</p>
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How **SwiftMR™** works

Our team will optimize MRI protocols to accelerate scans, initially producing faster yet noisy and blurry images. SwiftMR™'s deep learning model is then employed to enhance the accelerated scans, effectively transforming them into high-quality images.

<p>Conventional Scan</p> 	<p>Accelerated Scan</p> 	<p>Accelerated Scan + SwiftMR™</p> 
<p>30 mins</p>	<p>15 mins</p>	<p>15 mins</p>






SwiftMR™

Boost your Productivity and Efficiency

SwiftMR™ enables radiology practices to achieve a new level of productivity and efficiency with MRI scans. Reducing MRI scan time increases patient throughput, unlocking opportunities for revenue growth through increased MRI utilization.

SwiftMR™ S Comprehensive Coverage**

What sets us apart is our thoughtful approach to designing products for radiology practices. Our products cater to a diverse range of needs, providing comprehensive coverage.

 <p>Ages All ages</p>	 <p>Body parts All body parts</p>	 <p>Field strength 3.0T or lower</p>
 <p>Pulse sequence All pulse sequences</p>	 <p>Manufacturers All MRI manufacturers</p>	

ClariCT.AI



ULTRA-LOW-DOSE

AI CT IMAGE DENOISING SOLUTION

Experience the Unprecedented Image Clarity
for Ultra-Low-Dose CT Scans



Deep-Learning Clarity Engine
clears strong quantum noises



Compatible with any DICOM
standard CT scanner



Assists best user practice in
Ultra-Low-Dose CT imaging

FBP
Noise: 149 HU



ClariCT.AI
Noise: 11 HU
92% Denoised



WORLD'S 1ST AI-POWERED CT CLARITY ENGINE

120 kV 3 mAs (0.16 mSv) Ultra-Low-Dose for 51 year old male. Lung details are revealed after ClariCT.AI that were not discernable in original CT image.

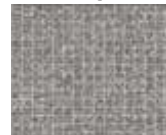
Noise Corrupted
CT Big Data



Deep Learning
Model



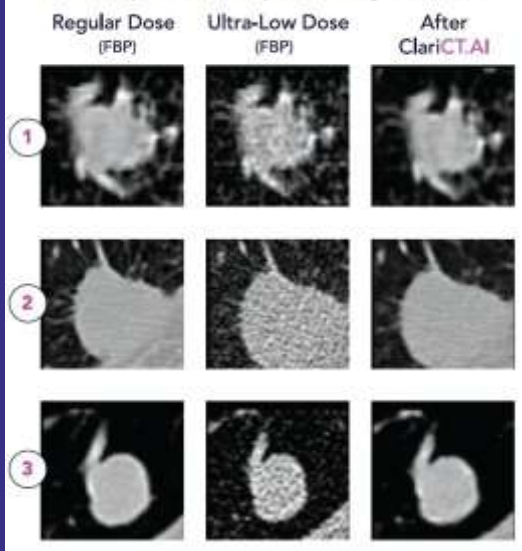
Deep Learned
Noise Signature



Extracted Noise
Image



Texture patterns in pulmonary nodules:



AI-POWERED IMAGE CLARITY

User definable and scalable-clarity settings allow users to maintain image clarity at reduced-dose settings ♦ AI-enabled image clarity helps users to achieve a consistent decisions in quantitative and qualitative analyses ♦ Enhanced image clarity allows users to optimize the trade-offs between image quality and higher radiation doses

INCREASED DIAGNOSTIC CONFIDENCE

Our patented Deep Learning Clarity Engine preserves natural image texture while clearing quantum noises thereby providing observation comfort with enhanced image clarity ♦ Enhanced image clarity equivalent to the standard dose setting increases reader's diagnostic confidence ♦ Helps users to achieve the best practice in low-dose CT imaging

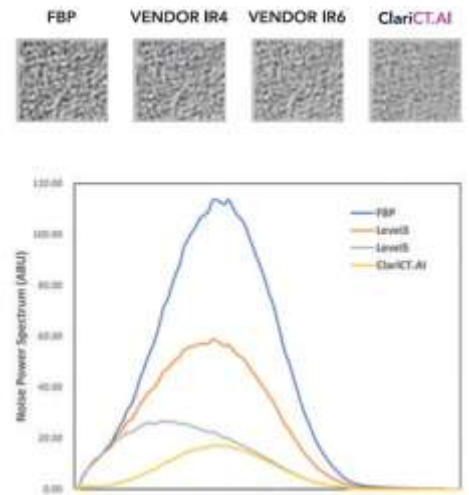
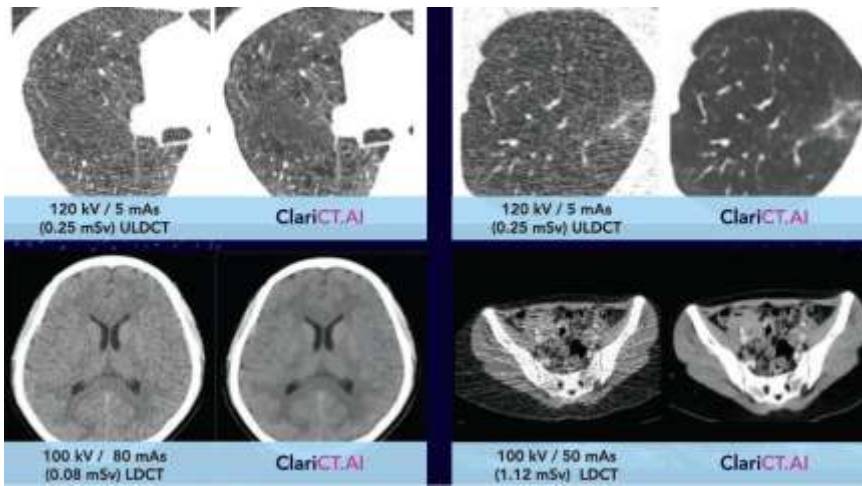
PRODUCT INTEGRATION AND USER CONVENIENCE

Fully compliant with DICOM standards: Compatible with all CT scanners and PACS systems ♦ Fully automated operation ♦ Fast processing speed allows streamlined workflow ♦ Simple and convenient installation on premise PC or cloud-based solution

OPERATING COSTS REDUCTION

No need to change the existing CT scanners

Despite powerful denoising, ClariCT.AI keeps the natural appearance of the texture and lesion details, making it a perfect match with Radiomics applications even in ULDCCT settings.



HOW DOES IT WORK?

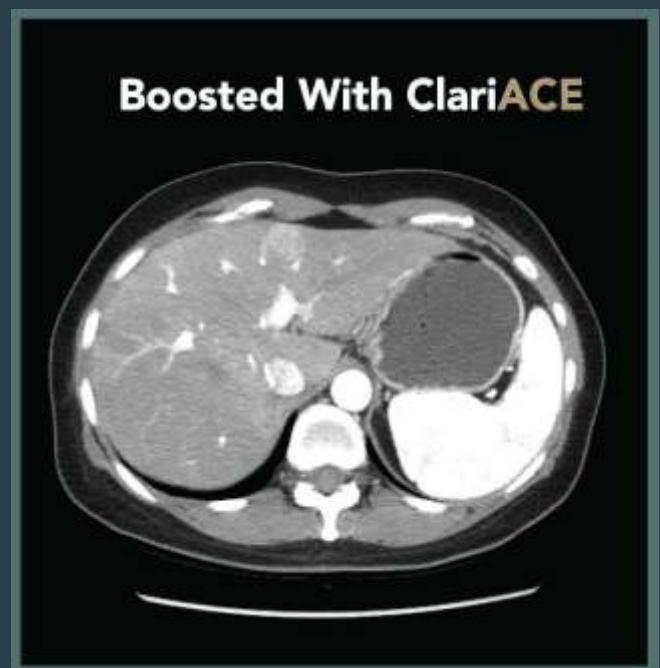
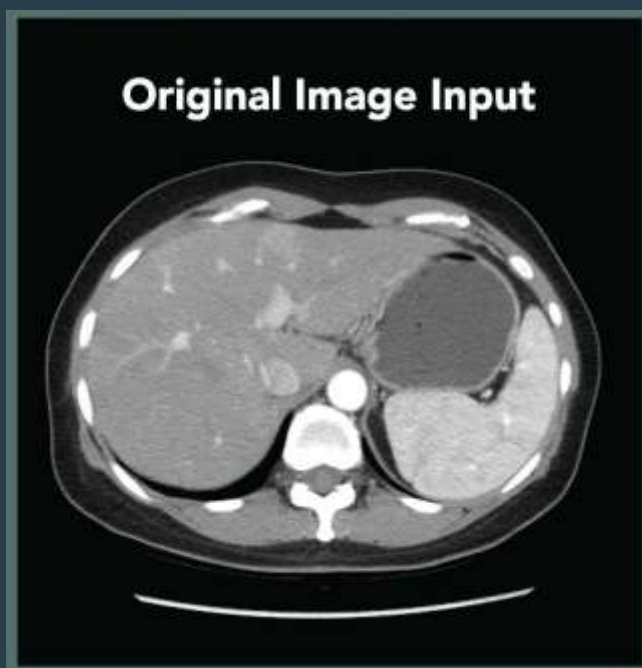


- ▶ Compliant with any DICOM standard CTs and PACS systems
- ▶ Utilizing Ultra-Low-Dose reduces cost by prolonging the life of CT system
- ▶ Fully Automated with fast processing speed
- ▶ Enhances image clarity consistently by clearing quantum noises, enhancing the anatomical structure, allowing no - image distortion, and by preserving a natural looking image

ClariACE

World's 1st AI-powered Iodine Contrast Enhancing solution

ClariACE is the World's 1st AI-powered Augmented Contrast Enhancing solution for low-dose CECT (contrast-enhanced computed tomography) images. Our powerful pre-trained deep learning model enables selective boost in contrast agent components in CT images.



KEY FEATURES

- ▶ Clearly and selectively enhances the contrast of the iodine without increasing noise
- ▶ Users can directly set the boost ratio of the contrast to achieve optimal and customized image quality
- ▶ Vendor agnostic regardless of iodine contrast manufacturer, CT scanner, and scanned conditions, making it easy to integrate with your current systems
- ▶ Performance validated for low-dose CT images and if CECT does not have enough image contrast for several reasons, one being obese patients

HOW DOES IT WORK?

ClariACE is a software device intended for networking, communication, processing and enhancement of CECT images in DICOM format regardless of the manufacturer and model of CT scanner as well as iodine contrast agent. ClariACE improves the quality of contrast enhanced CT images to optimize contrast medium use.



CONTRAST COMPARISON: ORIGINAL VS CLARIACE BOOSTED



CONTRAST AGENT

- ▶ Contrast enhanced CT scans that are utilized in the diagnosis of various diseases cannot avoid the use of contrast agents, despite the fact that contrast agents have a variety of side effects.
- ▶ Due to side effects, iodine doses should be reduced as much as possible in contrast enhanced Cts.
- ▶ On the other hand, if the contrast agent dose is reduced in contrast enhanced CT scans, there is a sk of reduced accuracy of patient diagnosis due to less image contrast between the lesion and tissue.
- ▶ For this reason, the conflicting relationship between patient safety and accurate diagnosis has remained a dilemma for CT imaging. ClariACE was invented to overcome such dilemma.

ClariPET-CT

AI-Powered PET-CT Denoising Solution

Denoise & Accelerate PET-CT Scan

Global Unmet Needs

Expensive equipment, long scan time, long back-log



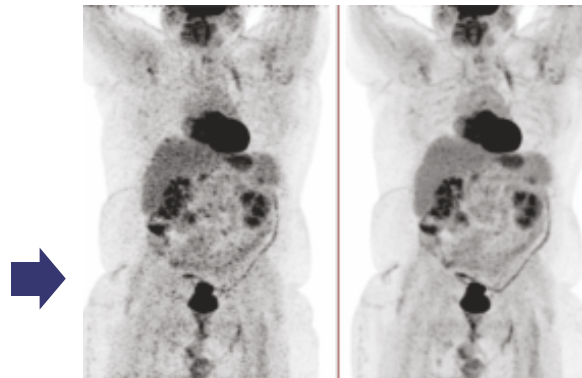
PET-CT scans required for all cancer patients
Under IAEA's special regulation
(highest radiation dose)



Long scan time, low turn-over rate
Insufficient hospital profit
Long back-log (> 1 mo. in Europe)

Clinical Benefits of ClariPET-CT

AI SW allows to reduce scan time up to 30% - 50%



- Applicable to any manufacturer & scanner
Providing same AI merits
- Reduces radiation dose of CT & PET at the same time



Faster scan time increases hospital profit (\$1 million/yr)
Helps reduce patient radiation exposure
Helps reduce radioisotope use (FDG etc)

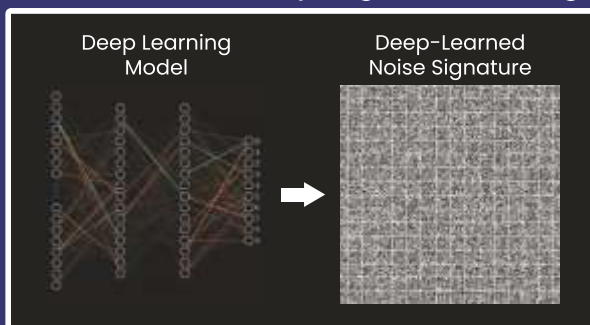
AI Denoising Algorithm Inside the ClariPET-CT

ClariPET-CT Clarity Engine Denoising

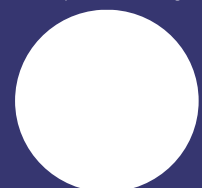
Noise Corrupted PET Image



Deep Learning Model



Extracted Noise Component Image



Denoised PET Image



CASE #1 [lung cancer]



15 min (50%) Scan
Without Denoising



15 min (50%) Scan
With Denoising



30 min (100%) Scan
Standard

CASE #2 [liver cancer]



15 min (50%) Scan
Without Denoising



15 min (50%) Scan
With Denoising



30 min (100%) Scan
Standard

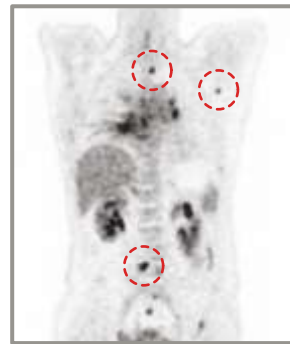
CASE #3



15 min (50%) Scan
Without Denoising

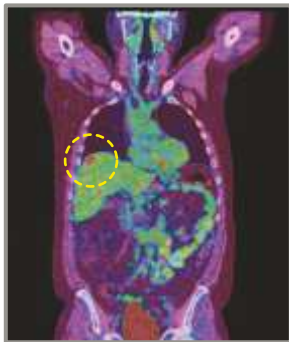


15 min (50%) Scan
With Denoising



30 min (100%) Scan
Standard

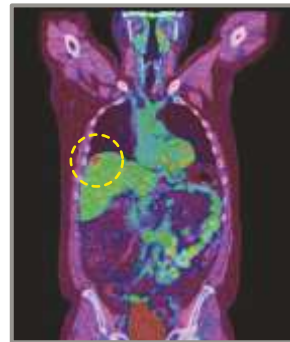
CASE [PET-CT Fusion]



15 min (50%) Scan
Without Denoising



15 min (50%) Scan
With Denoising



30 min (100%) Scan
Standard

Velmeni.Ai

The Only Complete AI Platform for Imaging, Claims, Voice & VR in Digital Dentistry



▶ **Imaging AI:** FDA-approved for panoramic, itewing, and periapical X-rays. Enables clinical decision support with detection on 2D images.



▶ **3D Verify:** Automatically checks 60+ anatomical landmarks in real time while the patient is still in the chair - reducing recalls and saving time, money, and frustration.



▶ **Voice:** Hands-free perio charting and clinical note-taking with multilingual voice transcription - empowering hygiene teams with faster, more accurate documentation.



▶ **Claims AI:** Integrated with PMS and imaging software for real-time claim verification, minimizing errors and reducing reimbursement delays.

Dental teams gain a complete, connected, and intelligent workflow - fast and accurate.



2D- FDA Cleared



3D Verify

Up to 60 clinical check points!

3D Verify & EasyRiter



Velmeni for Claims



VELMENI Voice

PIONEERING
PATIENT
CARE



Request a
Demo today!



Book your demo today...



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