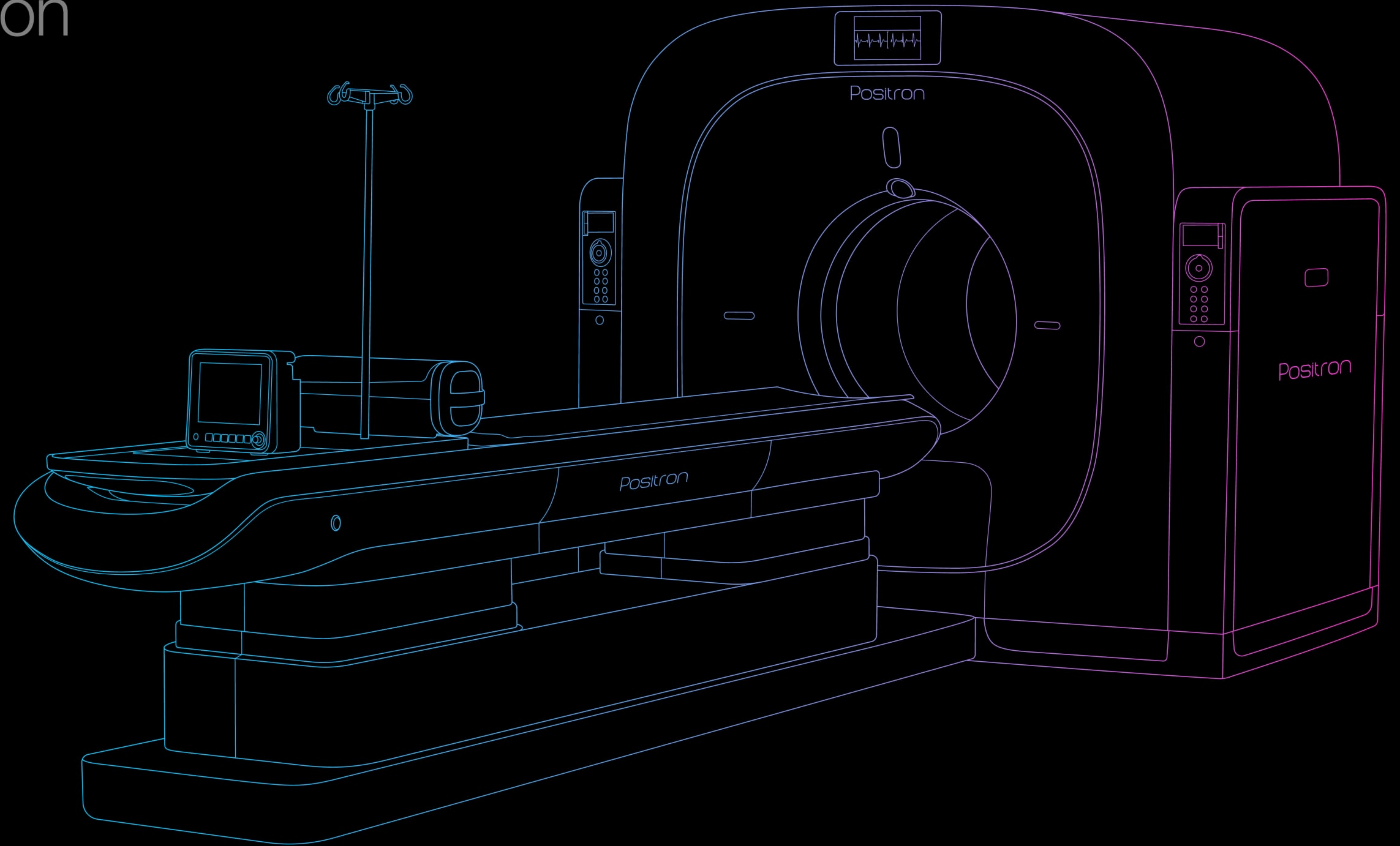


# NeuSight PET-CT

Empowering Clinical Exploration  
with Cutting-Edge Innovation



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**Sophisticated  
technology meets  
clinical requirements  
while delivering superior  
system performance.**





# Enhanced design offers superior control.

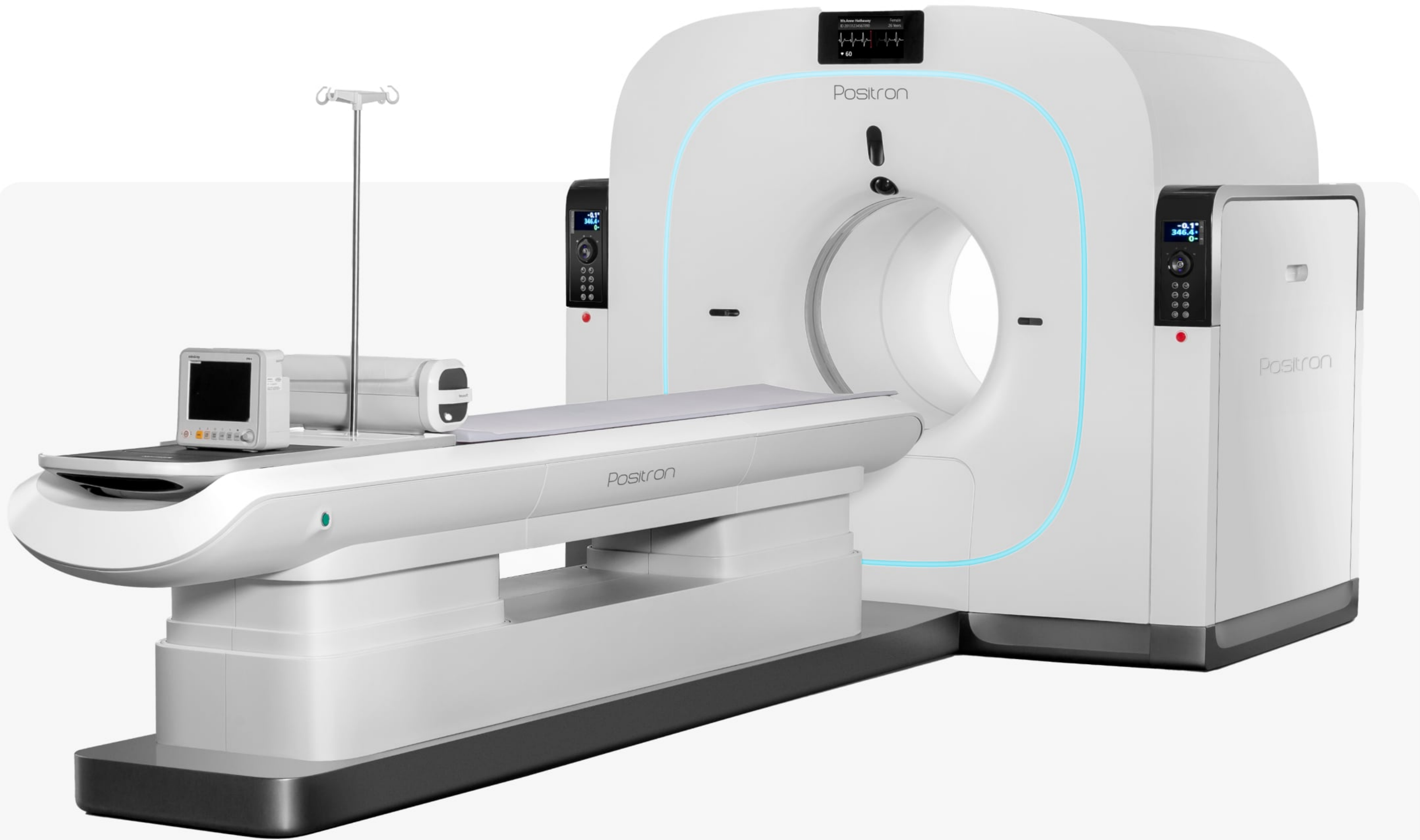
Intelligent software, exceptional image quality, and robust craftsmanship come together to elevate the imaging experience.

## A personalized experience

- Ergonomics and clinical design combine for patient comfort and intuitive technologist operation
- The 72 cm gantry boosts patient comfort and reduces anxiety, improving the scanning experience
- A visualization engine delivers real-time guidance for the technologist throughout each study
- The LED screen shows real-time operating status

## Internally self-shielded quality control source

- Adheres to ALARA principles with automated installation and quality control, eliminating the need for human interaction
- A compact, self-shielded quality control source ensures both safety and practicality
- Streamlines the quality control process, enhancing efficiency and saving valuable time
- Prioritizes safety by reducing radiation exposure, a key consideration for healthcare professionals



## Intelligent QC

- |  |   |  |
|--|---|--|
| Automatically detects and precisely qualifies system performance | Single-button control allows for quality control completion in just 5 minutes | Omni-directional detectors ensure optimal equipment performance and effortless operation |
|--|---|--|

- Daily QC   Create a new service   Time setting   Single-button scan   Chordal graph, image & report generation

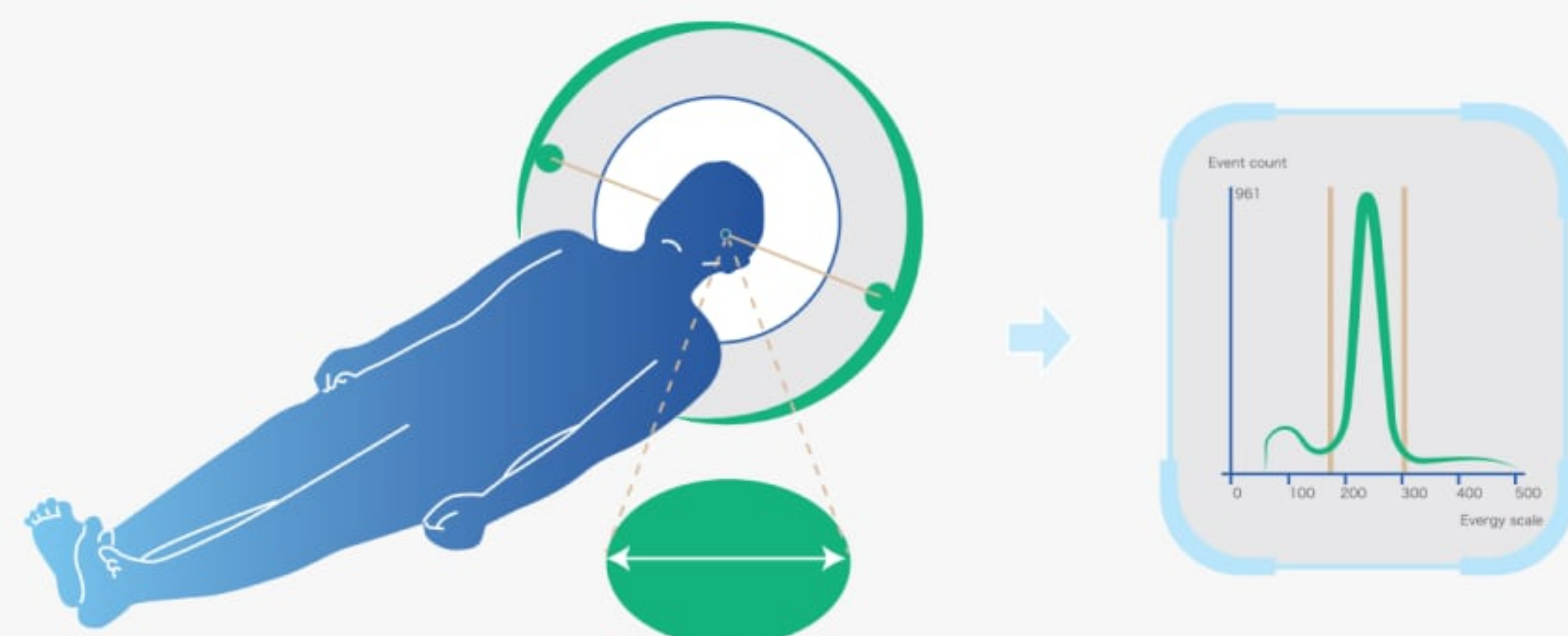


# Optimum image fusion creates excellent clinical performance

Digital signal processing detector modules and exquisite imaging

## High Sensitivity

- High photon load resistance with a background-free radiation crystal material.
- Thick crystal design with a large effective detection area.
- Energy self-correction technology enhances count rate consistency across crystal units, boosting module performance and system sensitivity.



## High Resolution

### Clear Honeycomb detection technology

- The PET detector modules utilize patented asymmetrical light-guided core technology, enhancing event decoding precision and ensuring uniform module signal sampling.

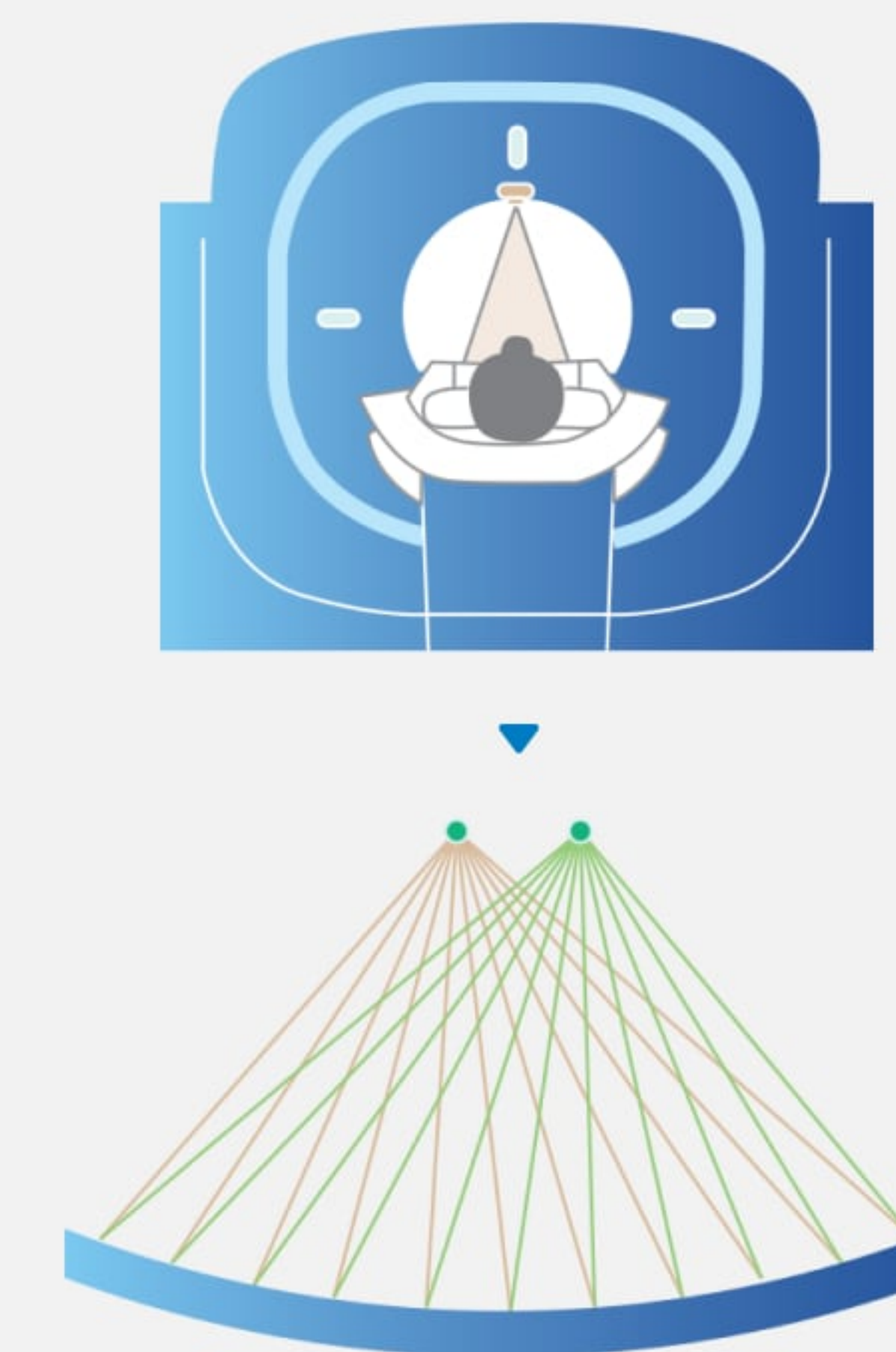
### IPIE position identification technology

- Crystal position identification employs IPIE (Isopycne Position Identification Enhancement) to significantly improve event positioning precision and image resolution.

## NeuViz 64 In CT

### Outstanding performance

- A large heat capacity smart X-ray tube, double sampling of X and Y axis, and intelligent quadruple acquisition to collect raw data archive offers a perfect balance of speed, dose, and image quality.



### Micro-Star detector

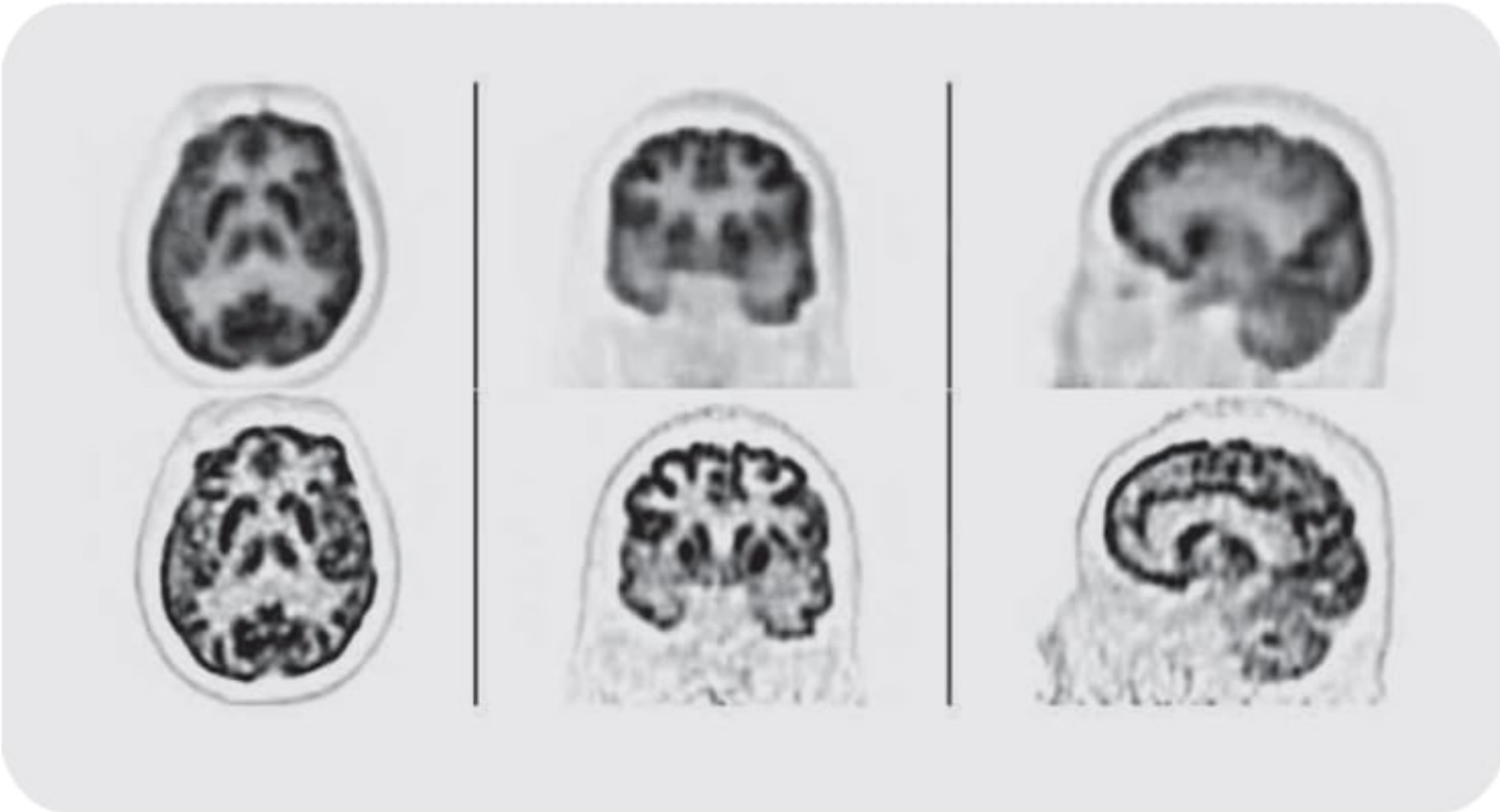
- Hyperfine structure nano-slicing.
- Ultrathin photosensitive layer nano-slicing
- High-efficiency conversion





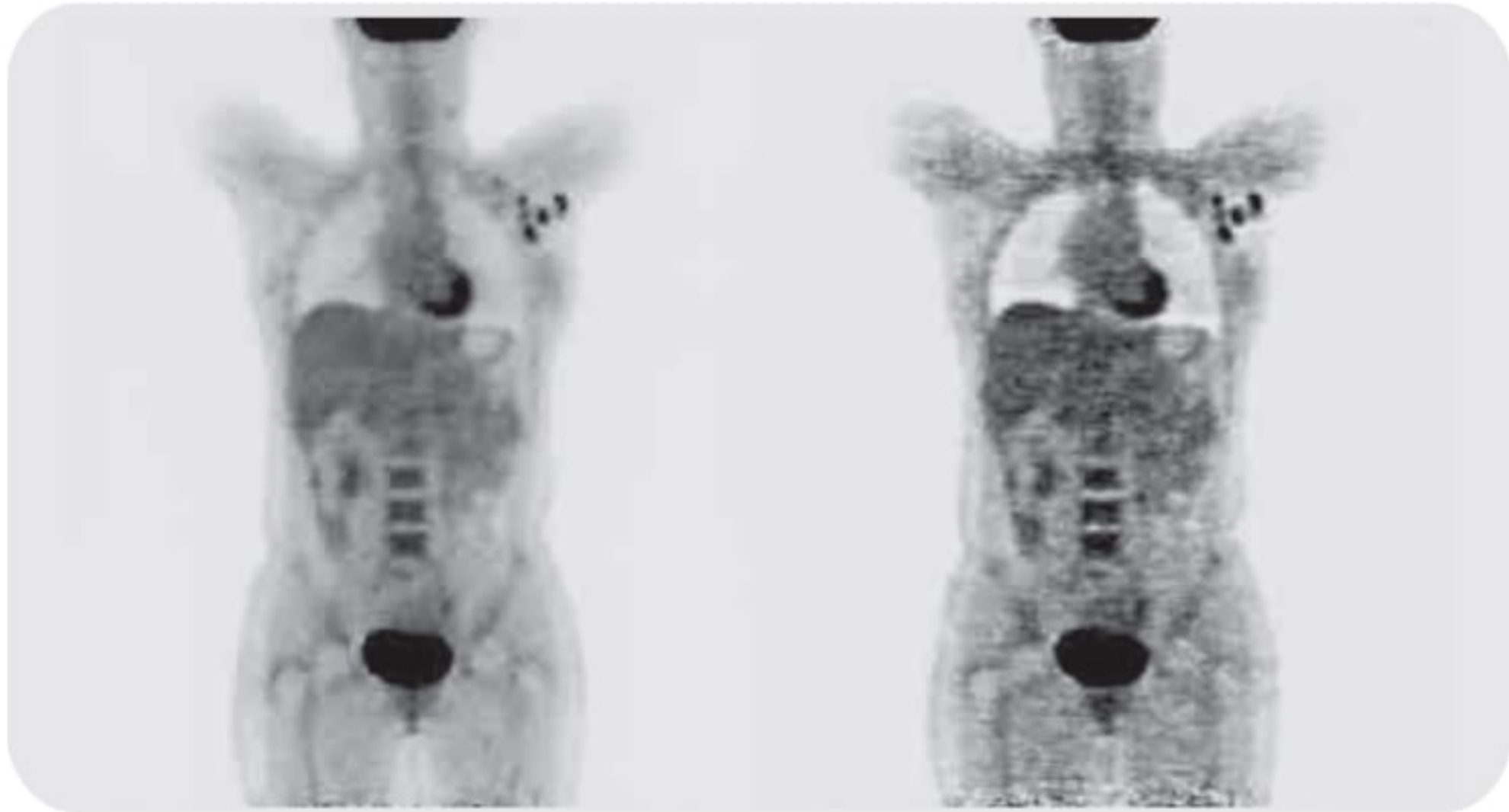
# Core technology matching delivers more precise diagnostic information.

Advanced digital signal processing in detector modules for exceptional imaging.



## PDR

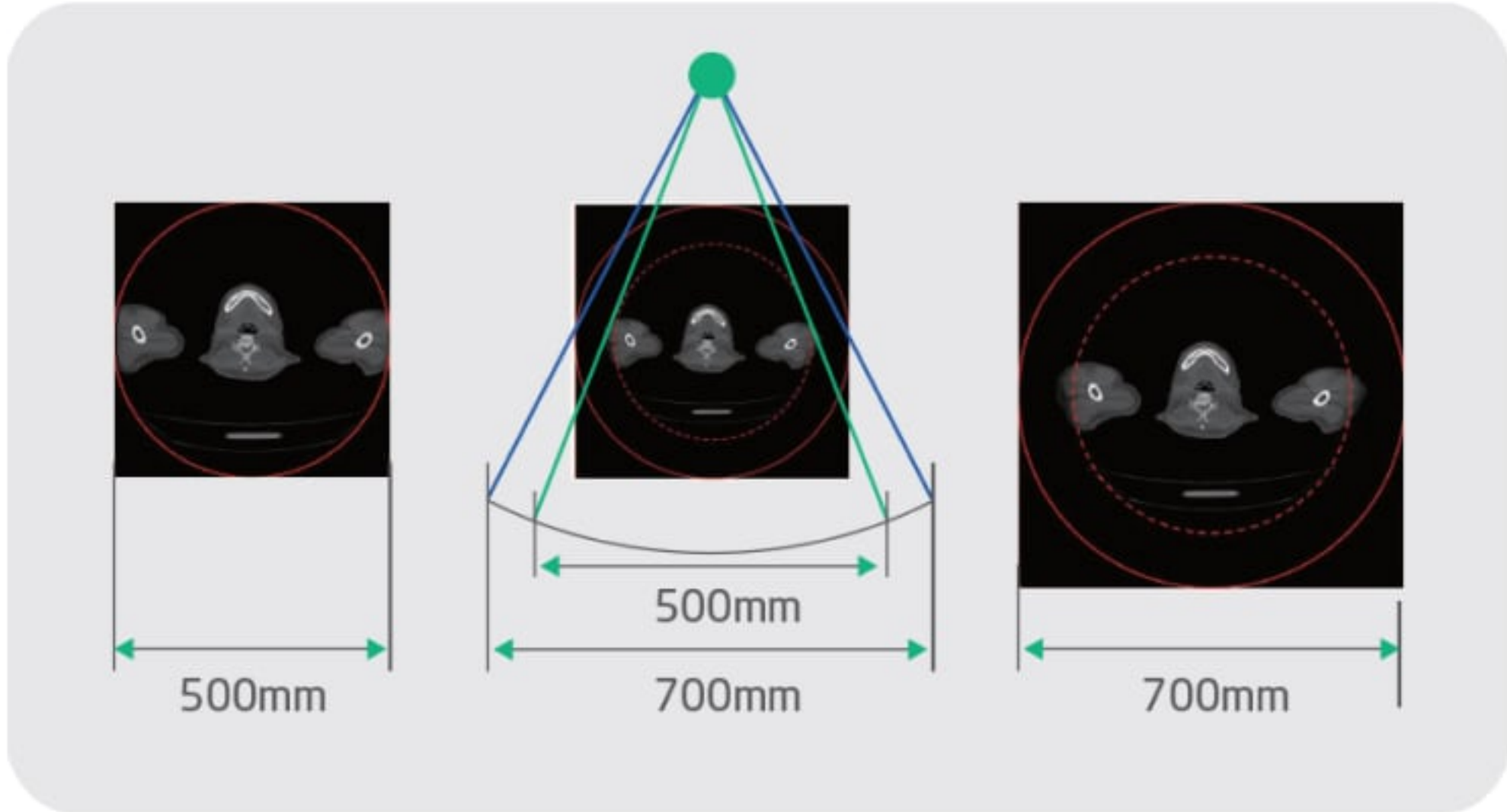
Enhanced resolution for crystal-clear images with intricate detail.



## WLS

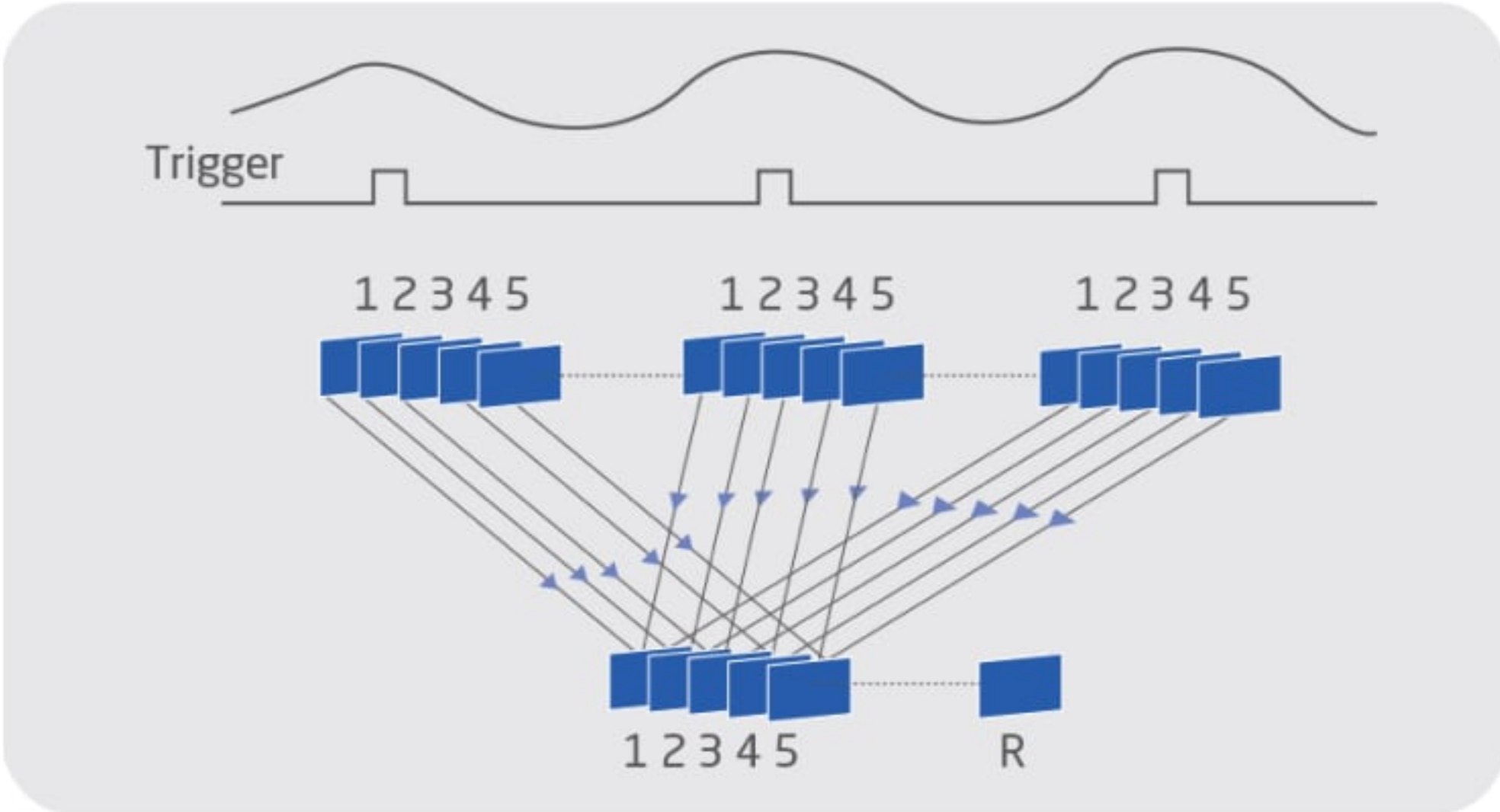
The WLS algorithm is recommended for precise, error-free lung oncology exams.

Mastering core technologies to enhance care for patients.



## CT extended FOV

CT offers a 70cm transaxial view for attenuation correction in PET, ensuring clearer images regardless of body size.



## 4D GATE

Eliminate blurring from cyclical movement by using gating to produce 4D PET and CT images, precisely aligning each for attenuation correction and fusion.



# Prioritizing Patient Dose

Delivering high-quality imaging with minimal dose

## Low radiation dose

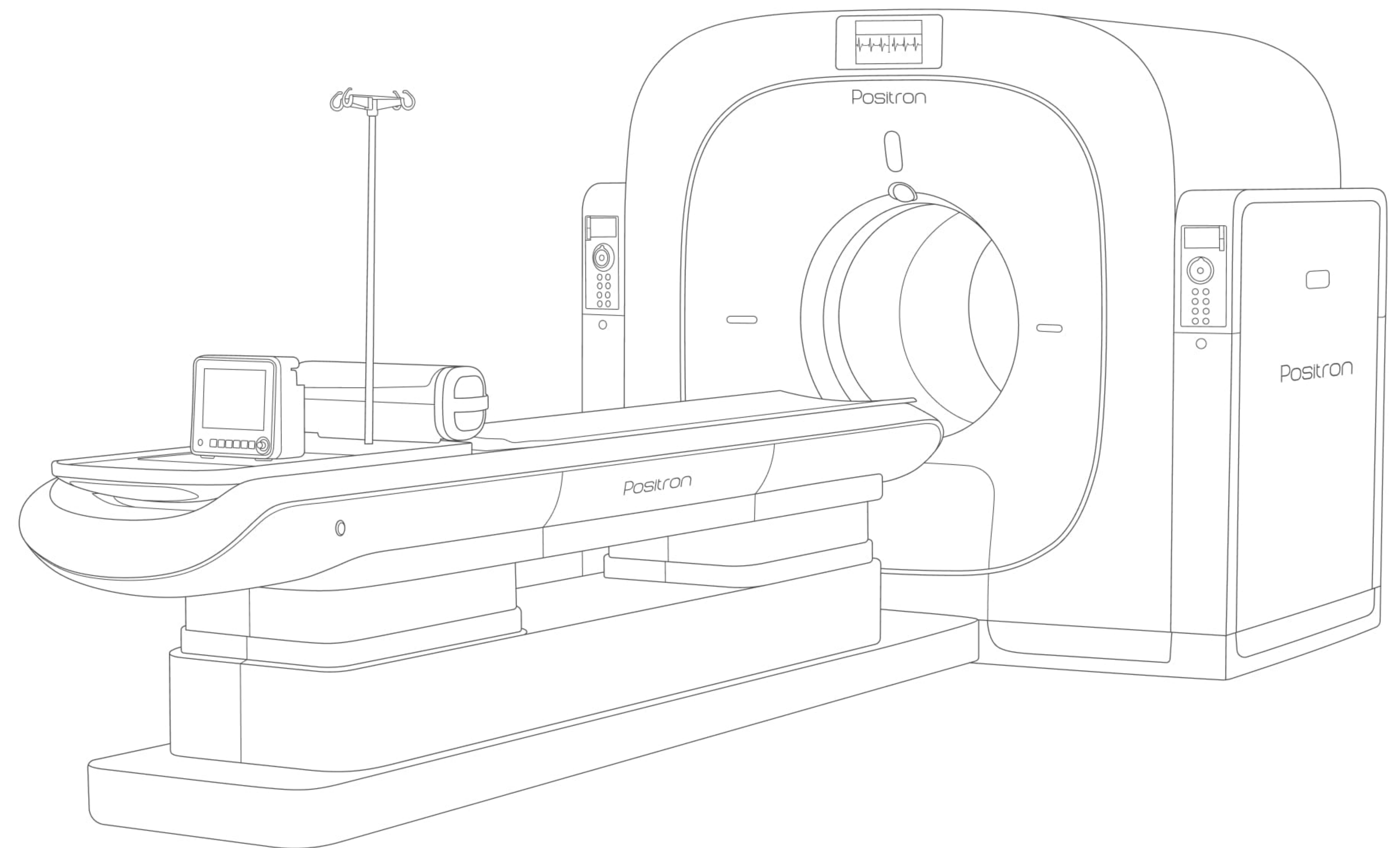
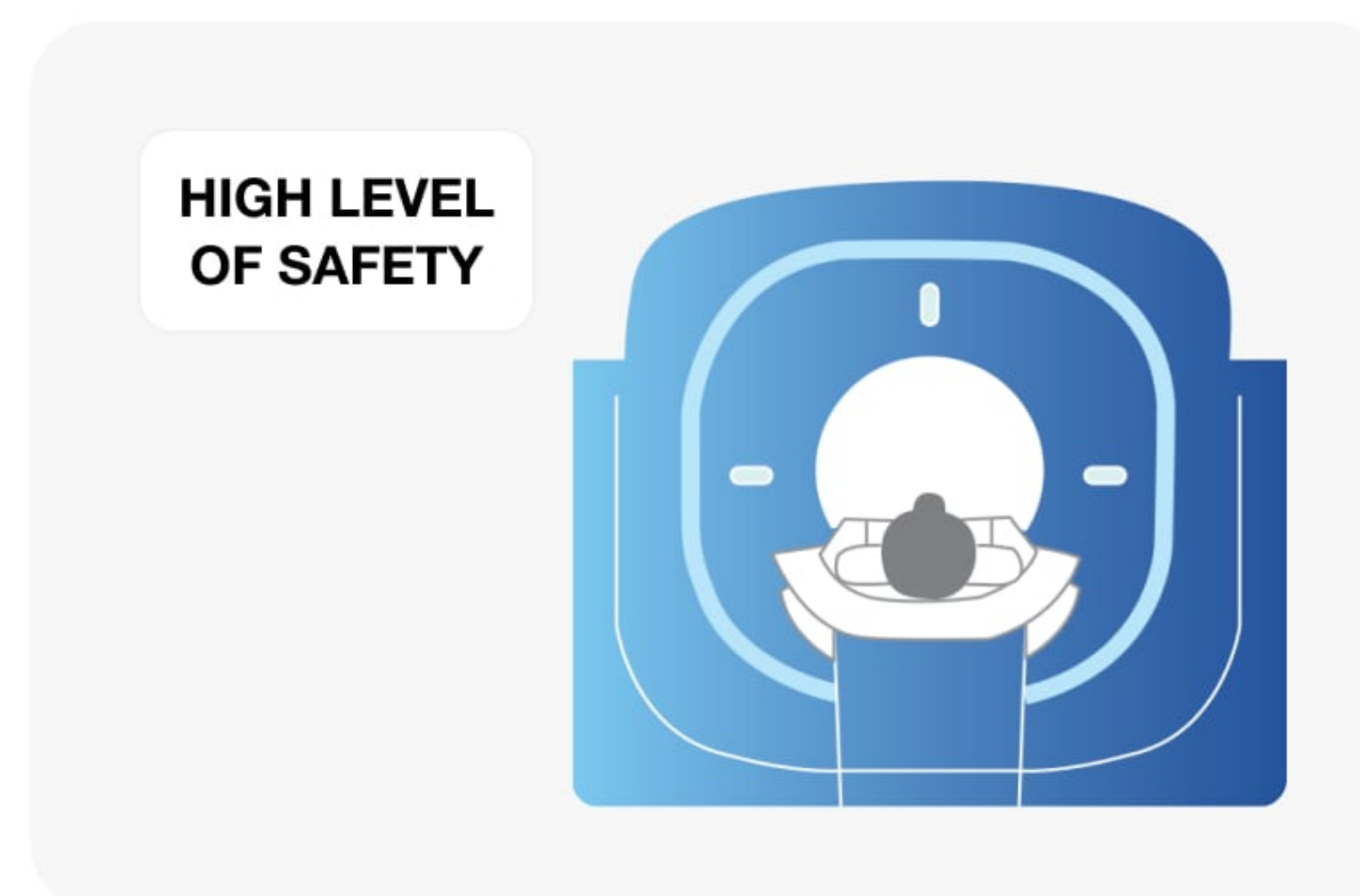
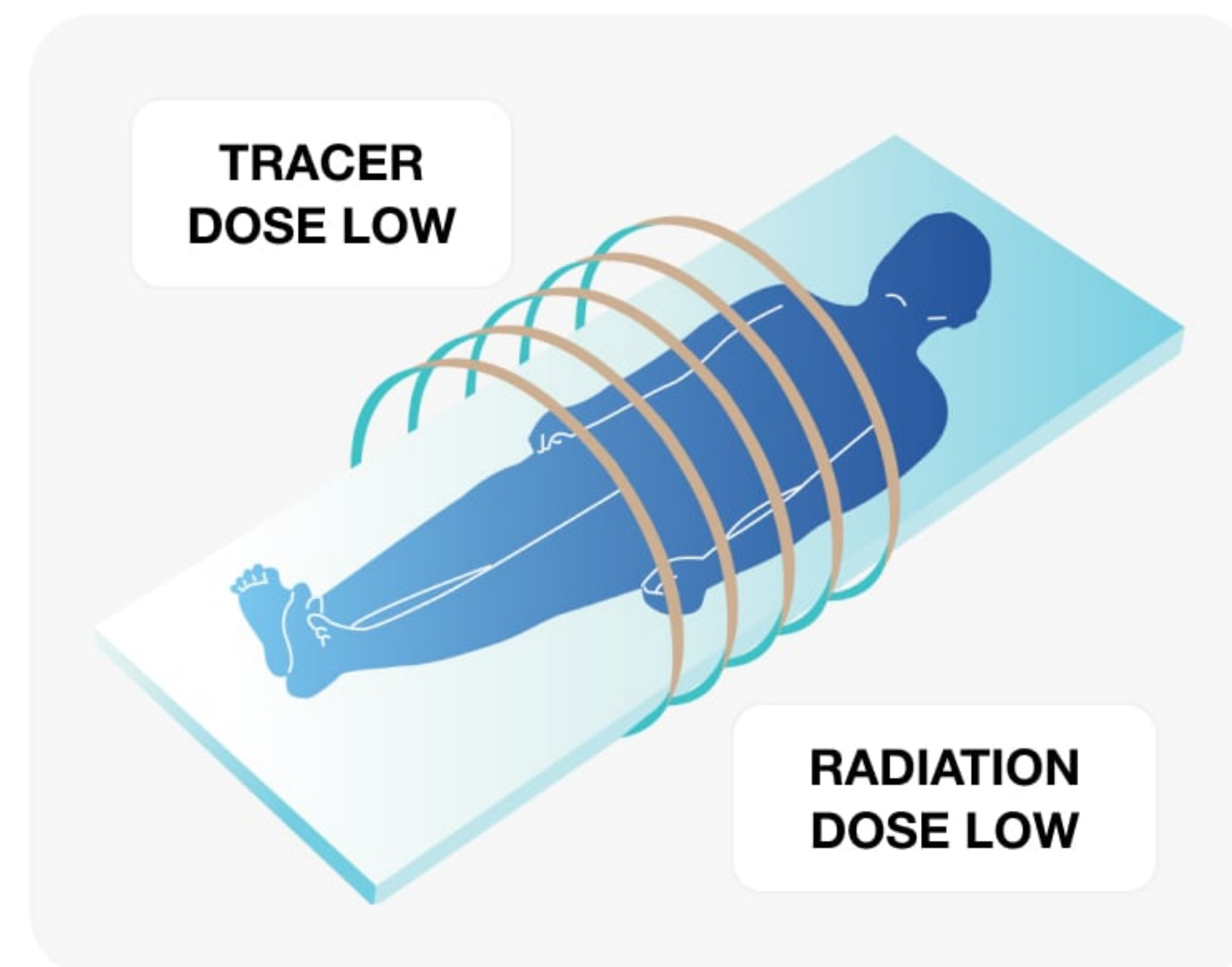
- Tube current and voltage are adjusted according to exam requirements for optimal performance.

## Low tracer dose

- The highly sensitive acquisition system reduces the patient's tracer dose.

## Increased safety

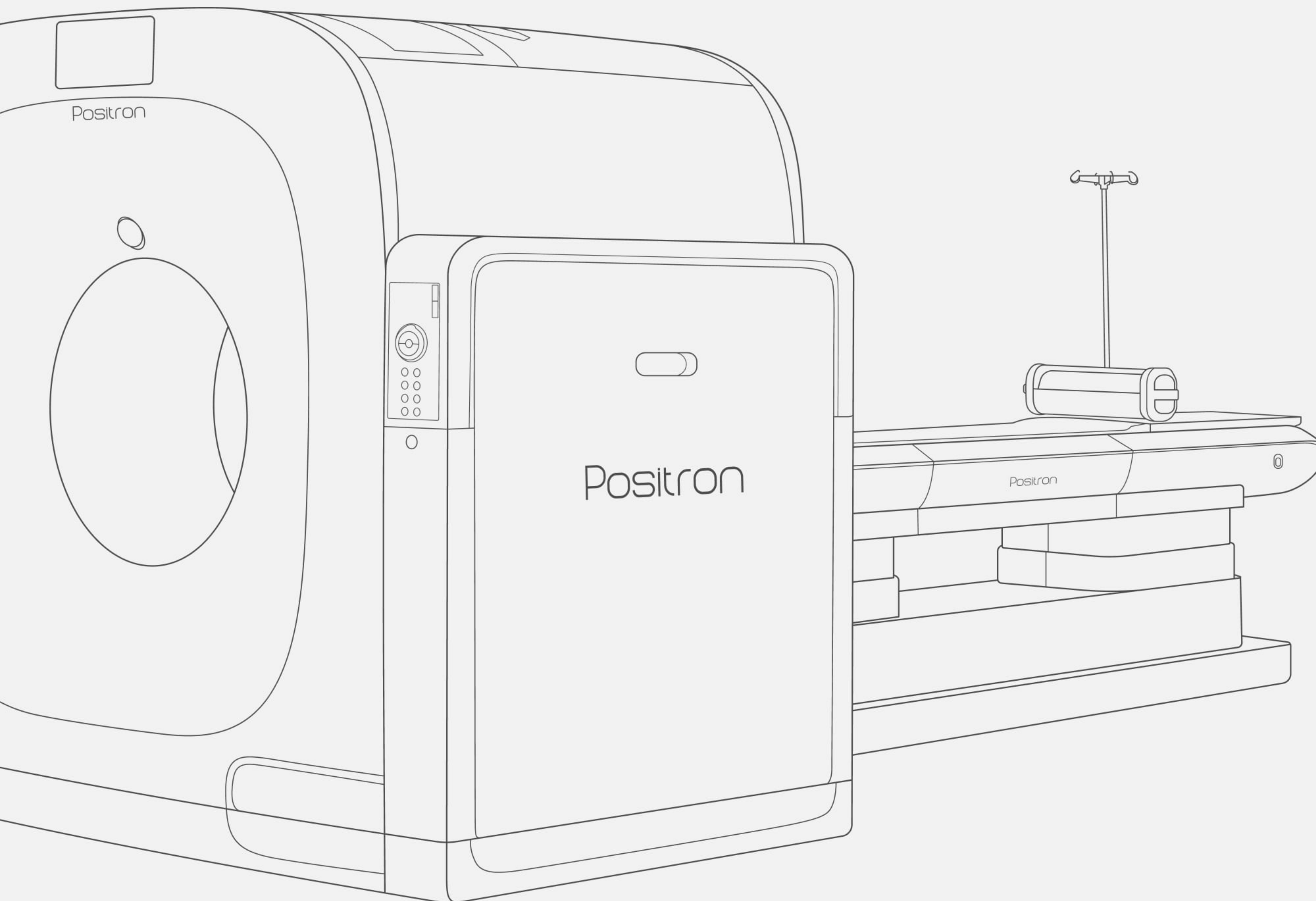
- Door interlock ensures control over X-ray generation and rod source output
- Continuous movement patient table controls ensure smooth adjustments



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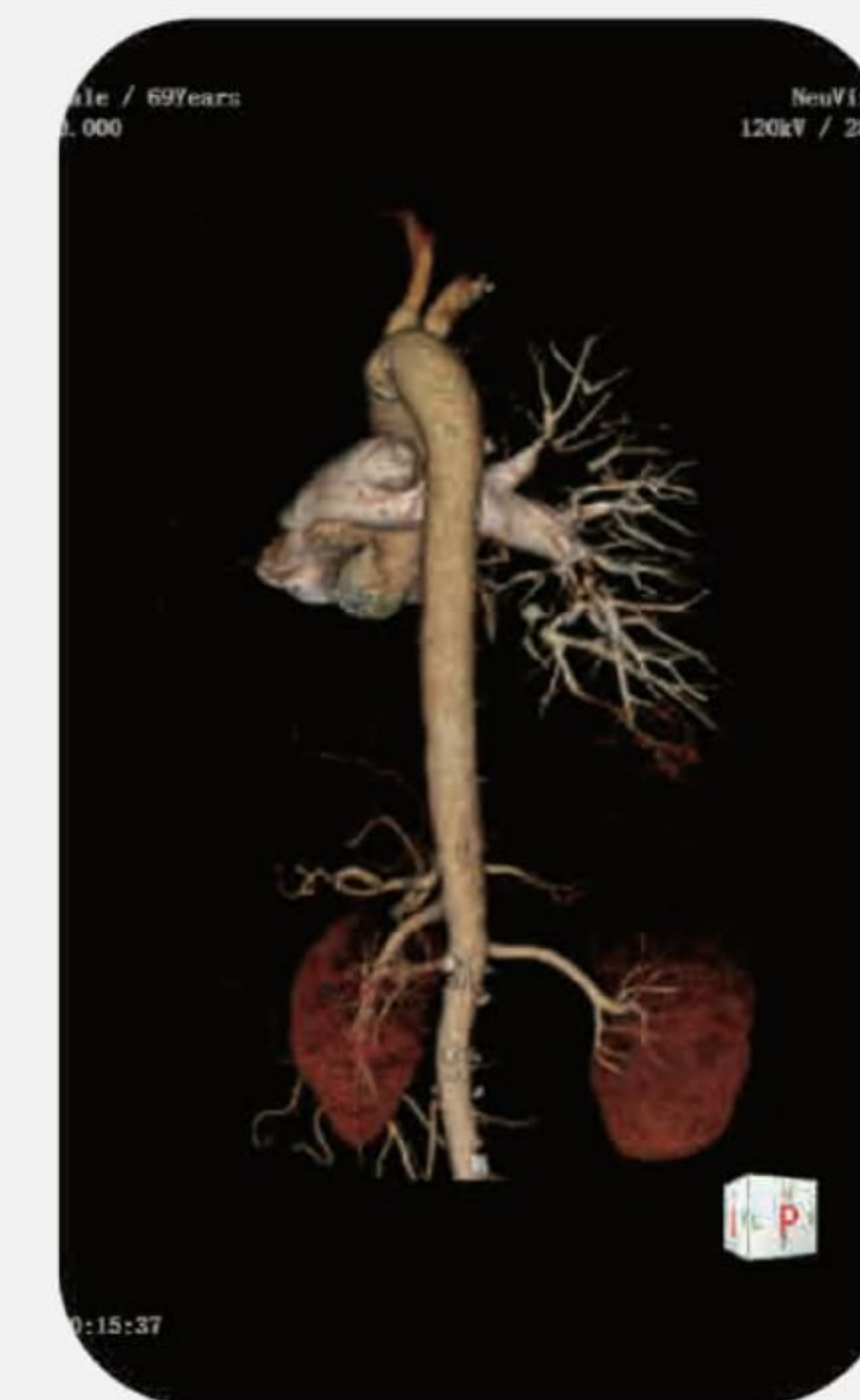
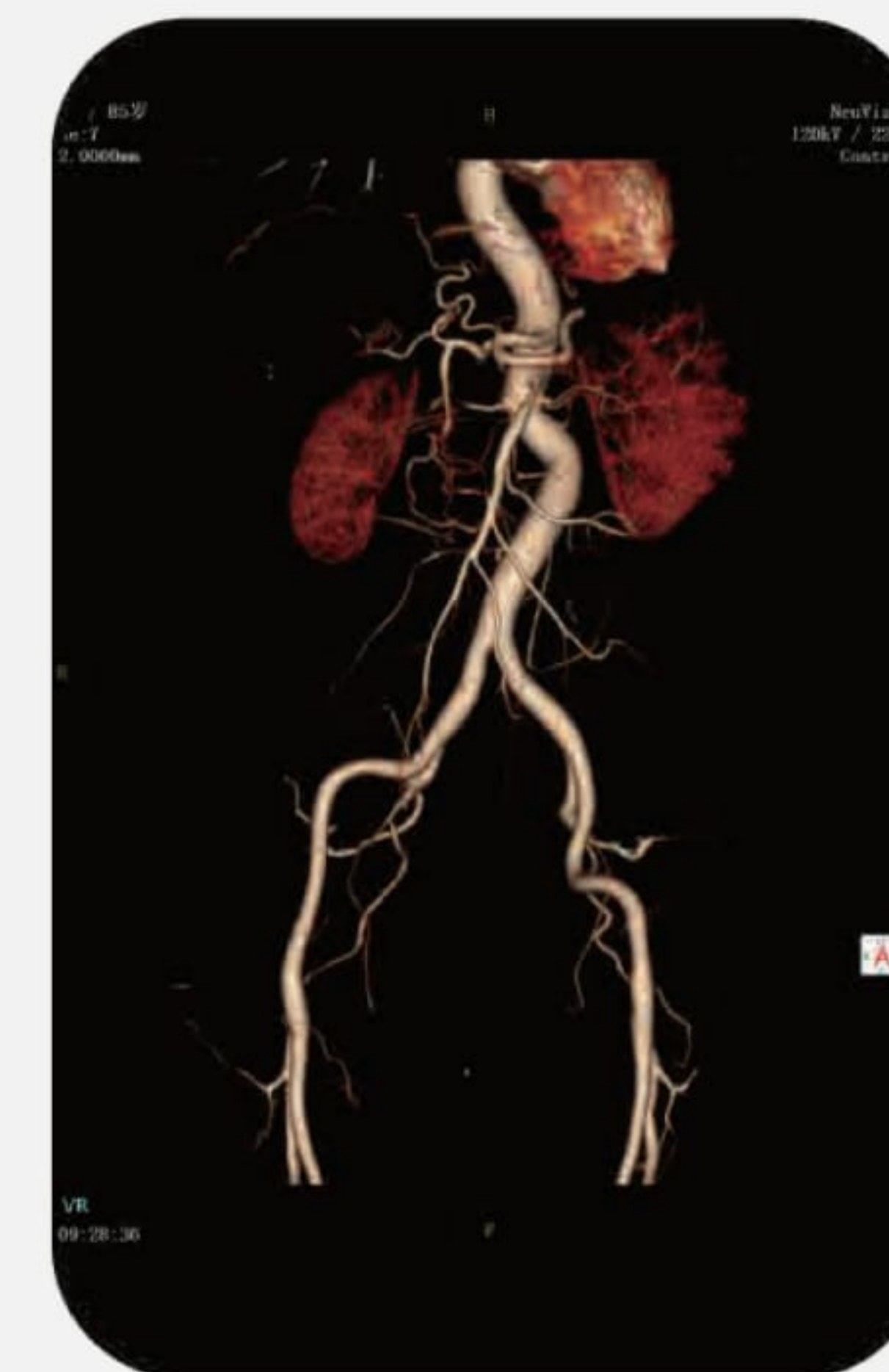


# Independent use of NeuViz 64In CT delivers superior quality and performance



## Advanced imaging of blood vessels and bone

Volume rendering imaging

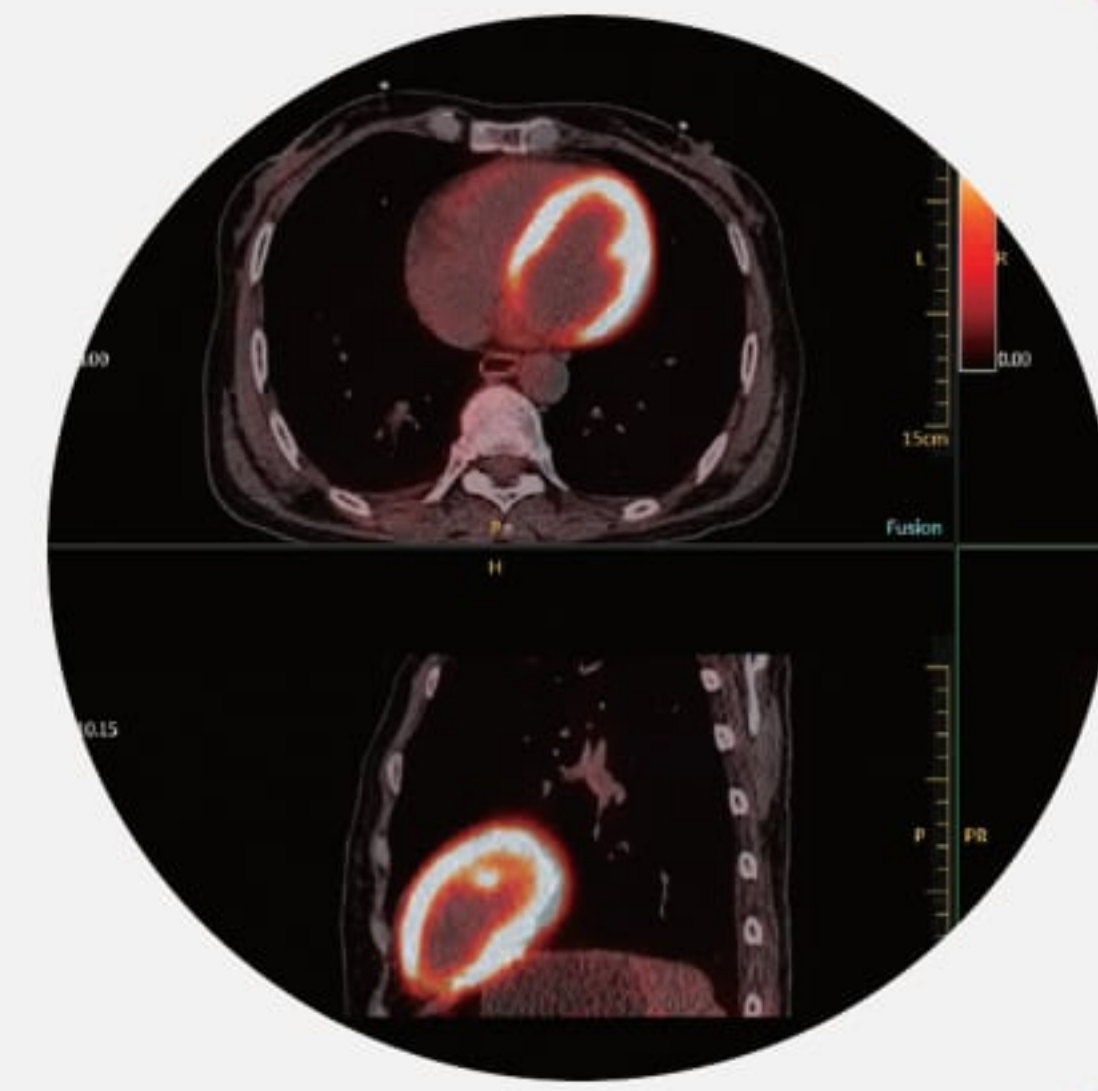




# Advanced clinical applications provide unmatched image clarity.

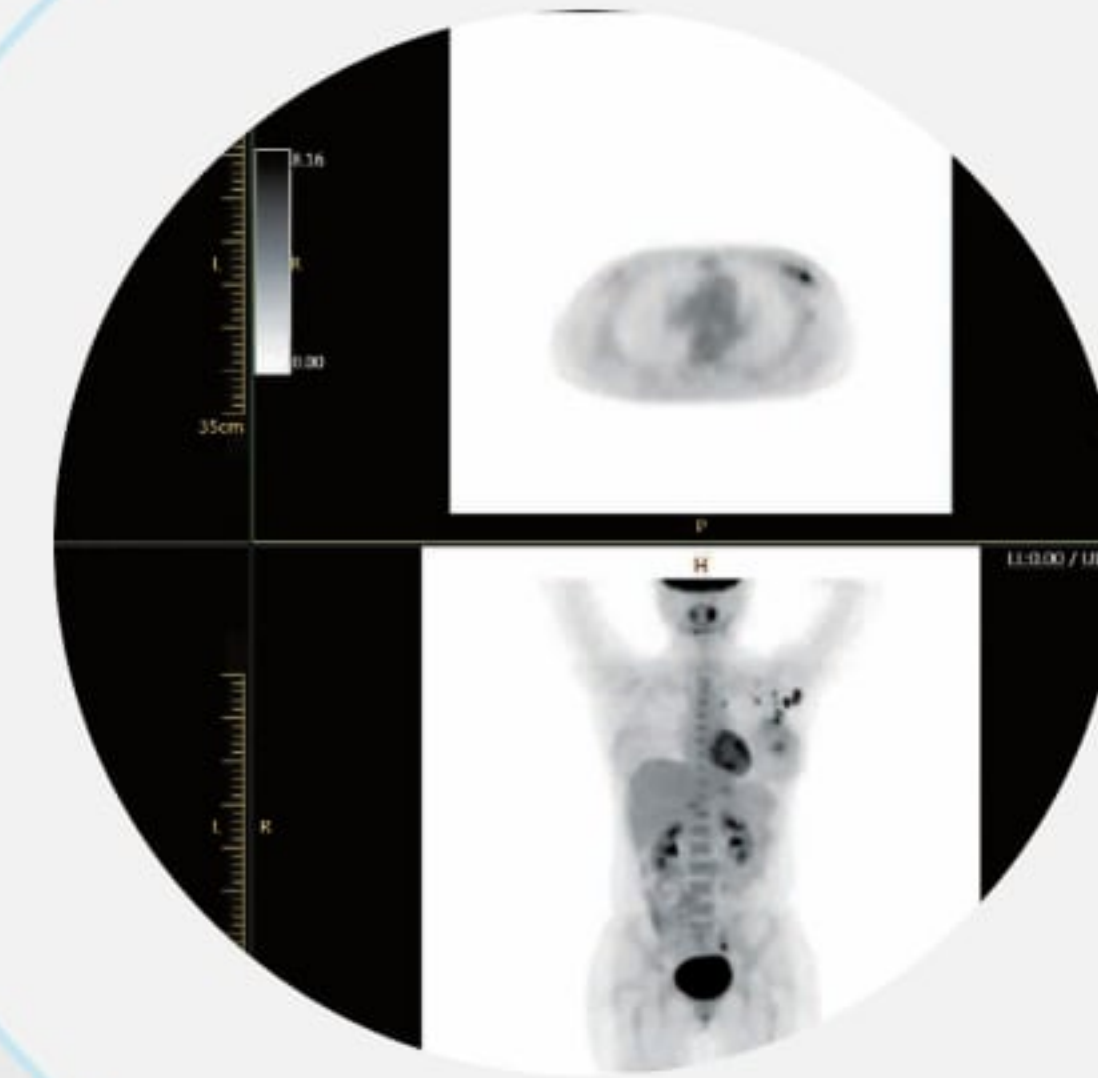
## Heart Function

- Diagnosis of myocardial ischemia and coronary heart disease
- Therapeutic program development



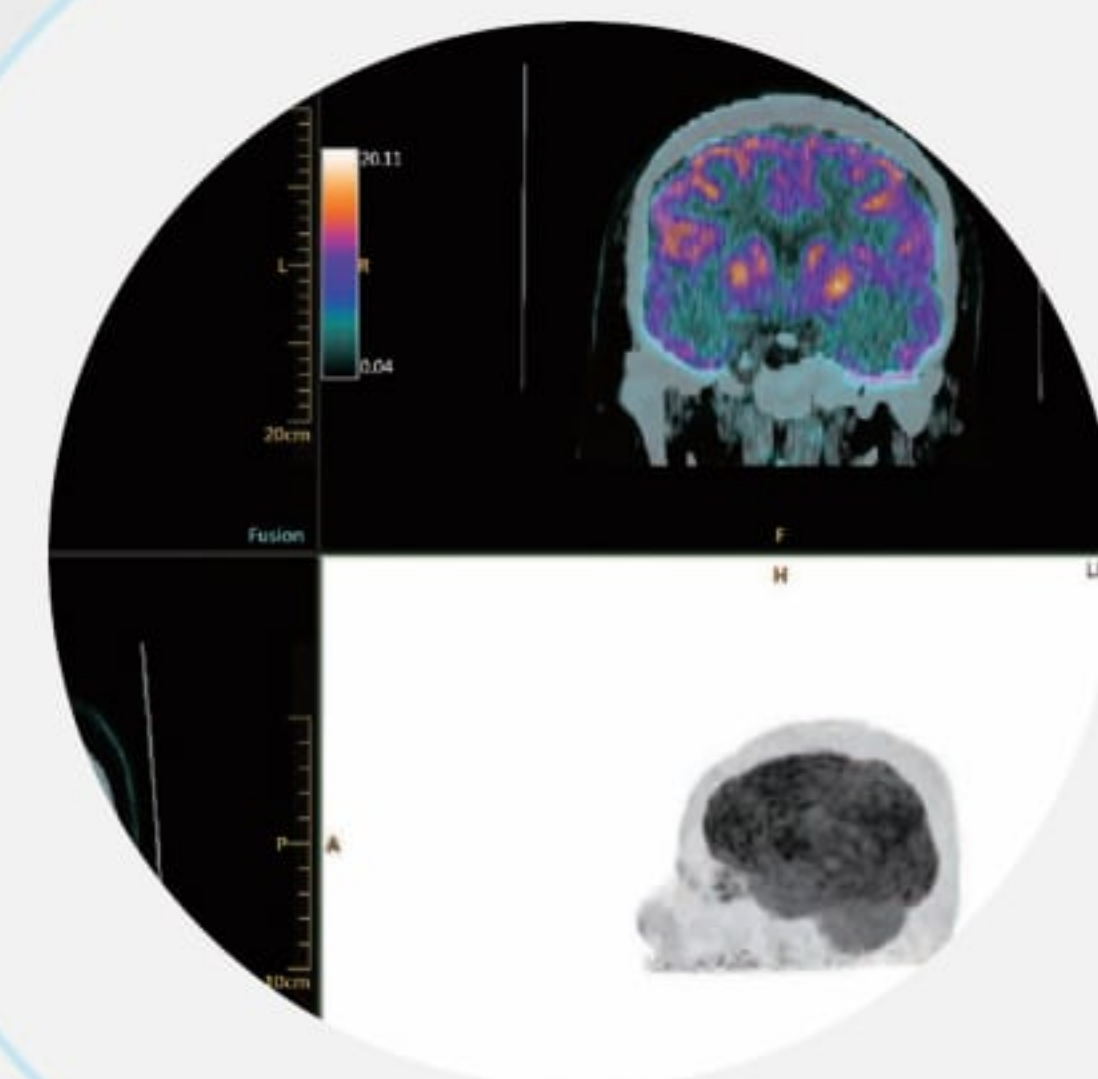
## Tumor Management

- Detecting early tumors
- Identifying lesion nature
- Locating primary lesion
- Evaluation before, during, and after treatment



## Cerebral Neurology

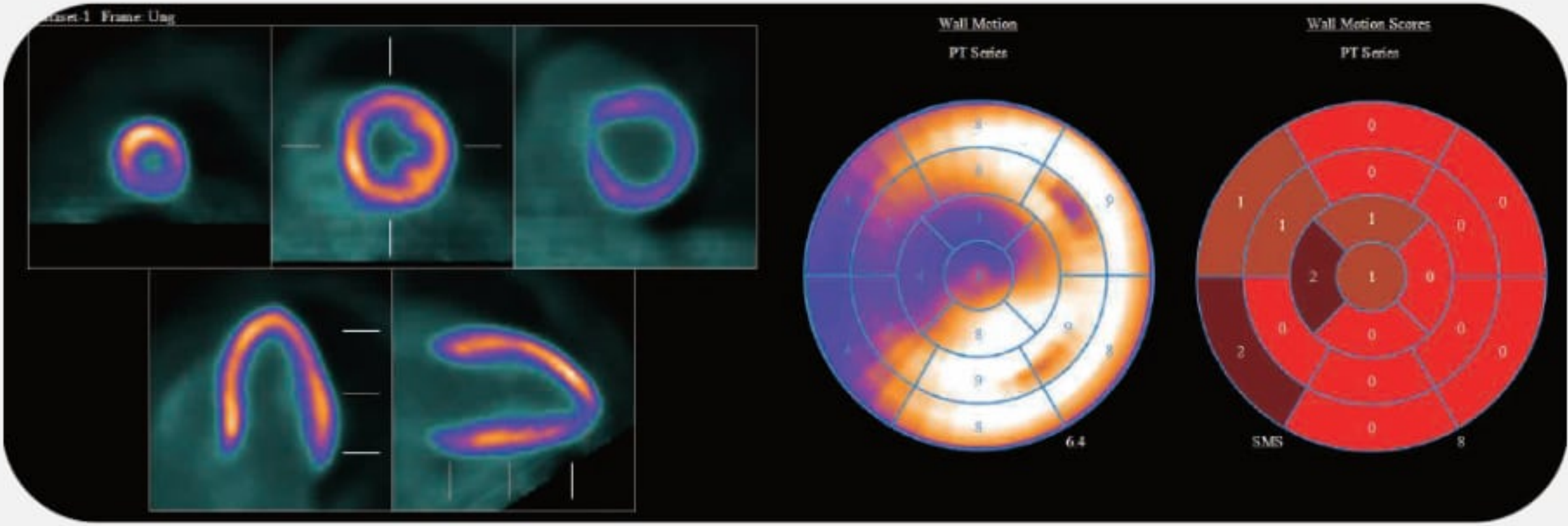
- Quantitative analysis of brain images in both Talairach and patient space
- Coregistration of PET or CT data with a reference template (The Talairach Atlas)





## Corridor 4DM

Global advanced heart software supports multiphase heart data loading to analyze myocardial perfusion images and provide quantitative heart function analysis.

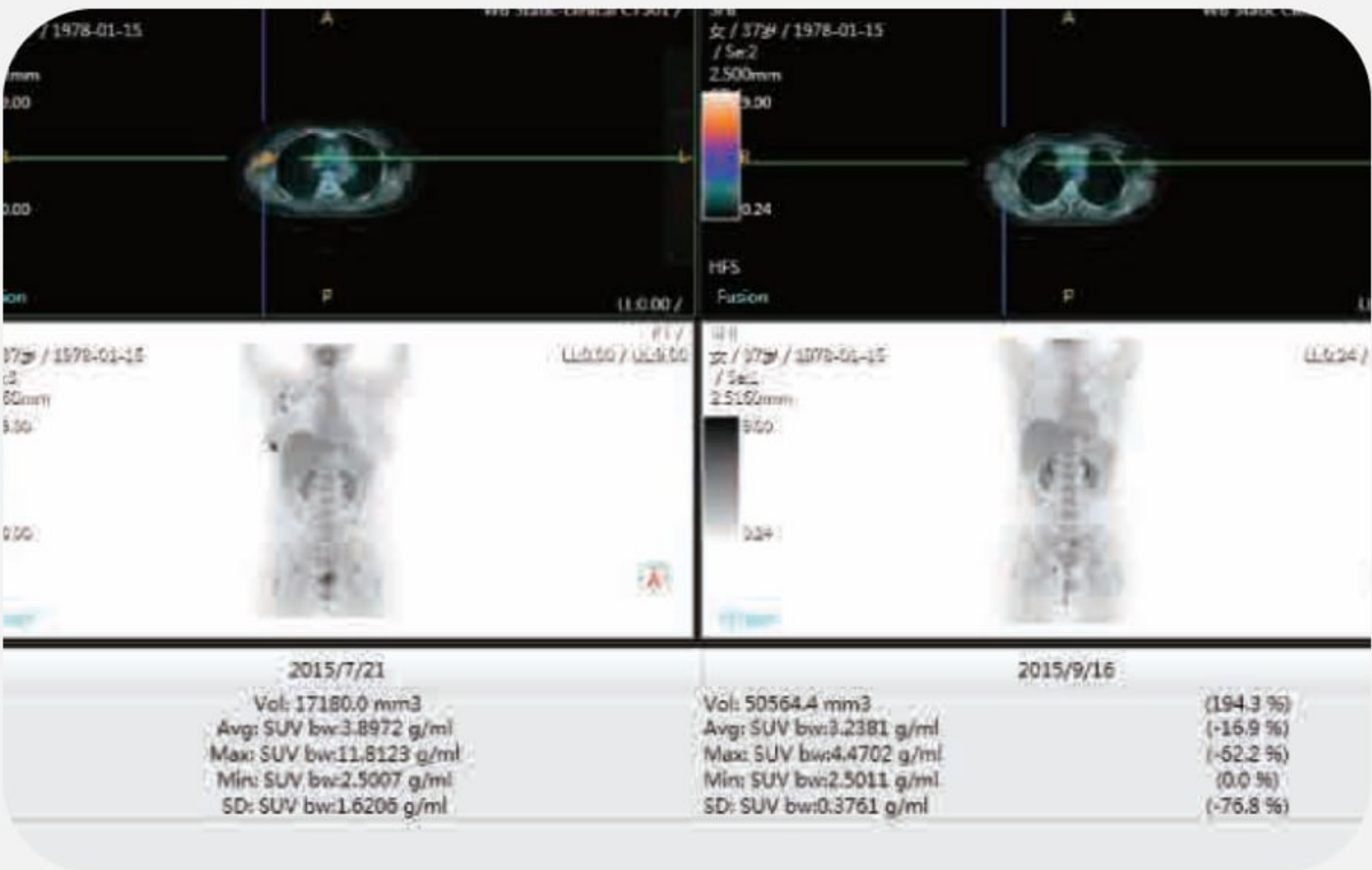


## Tumor management application

Compare, analyze, and track tumor progression with up to four sequential PET-CT studies.

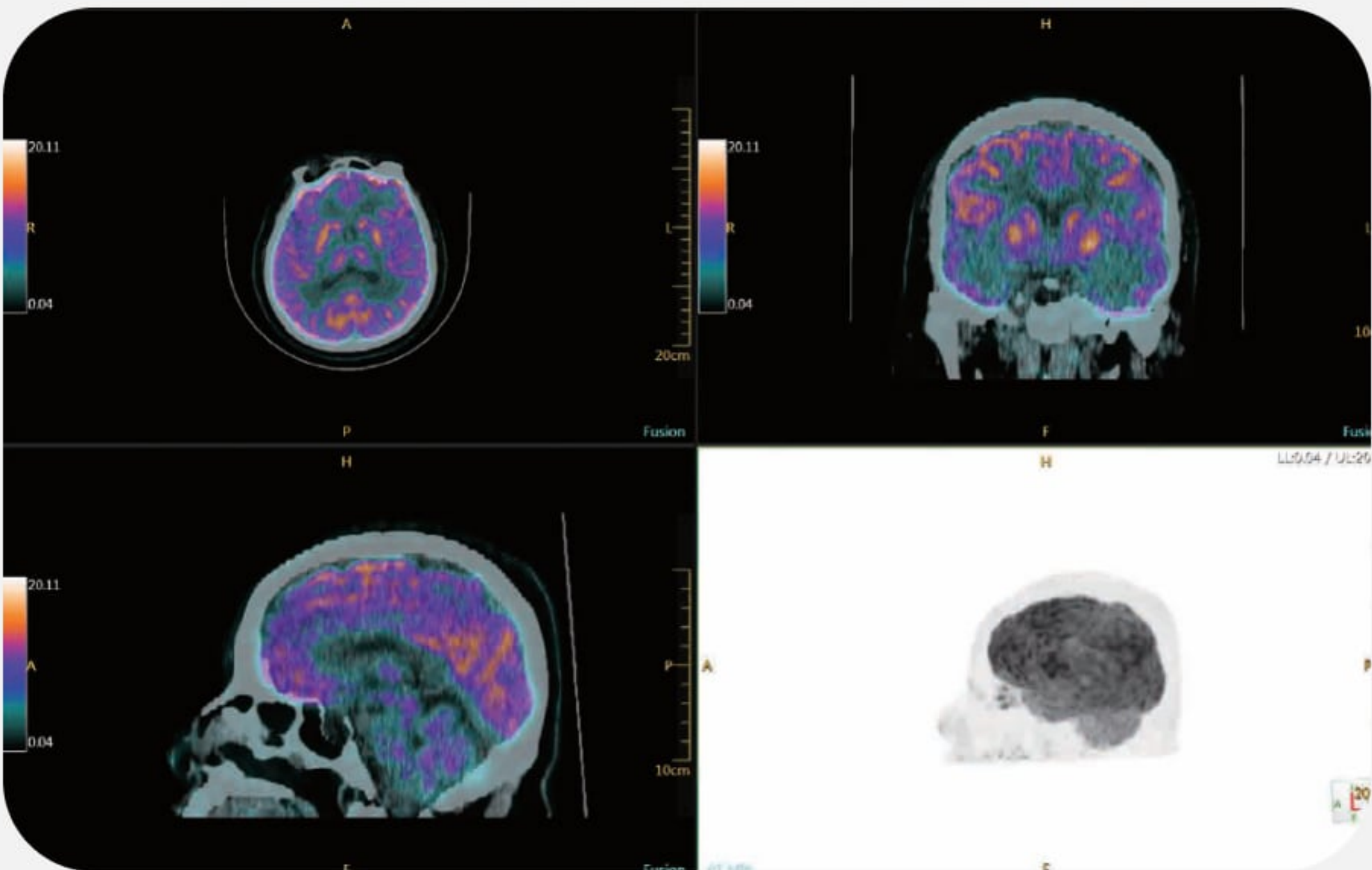
The SUV-based semi-automatic tumor segmentation.

Measurement of changes in tumor volume and metabolic activity.



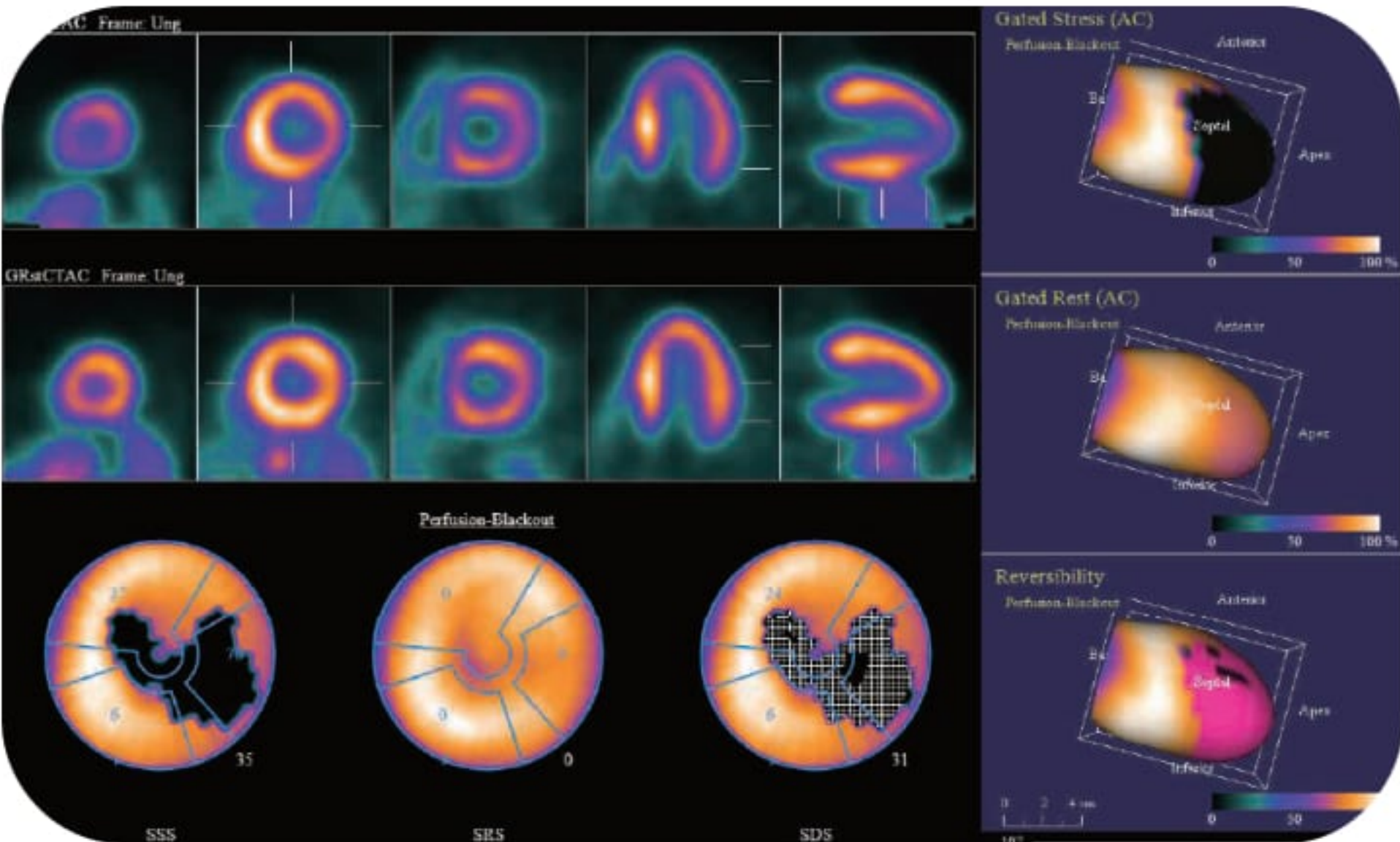
## Neurology application

Cerebral metabolism analysis uses spatial normalization of brain images through registration to calculate SUV in regions of interest, enabling comparative analysis of left and right hemisphere function over time.

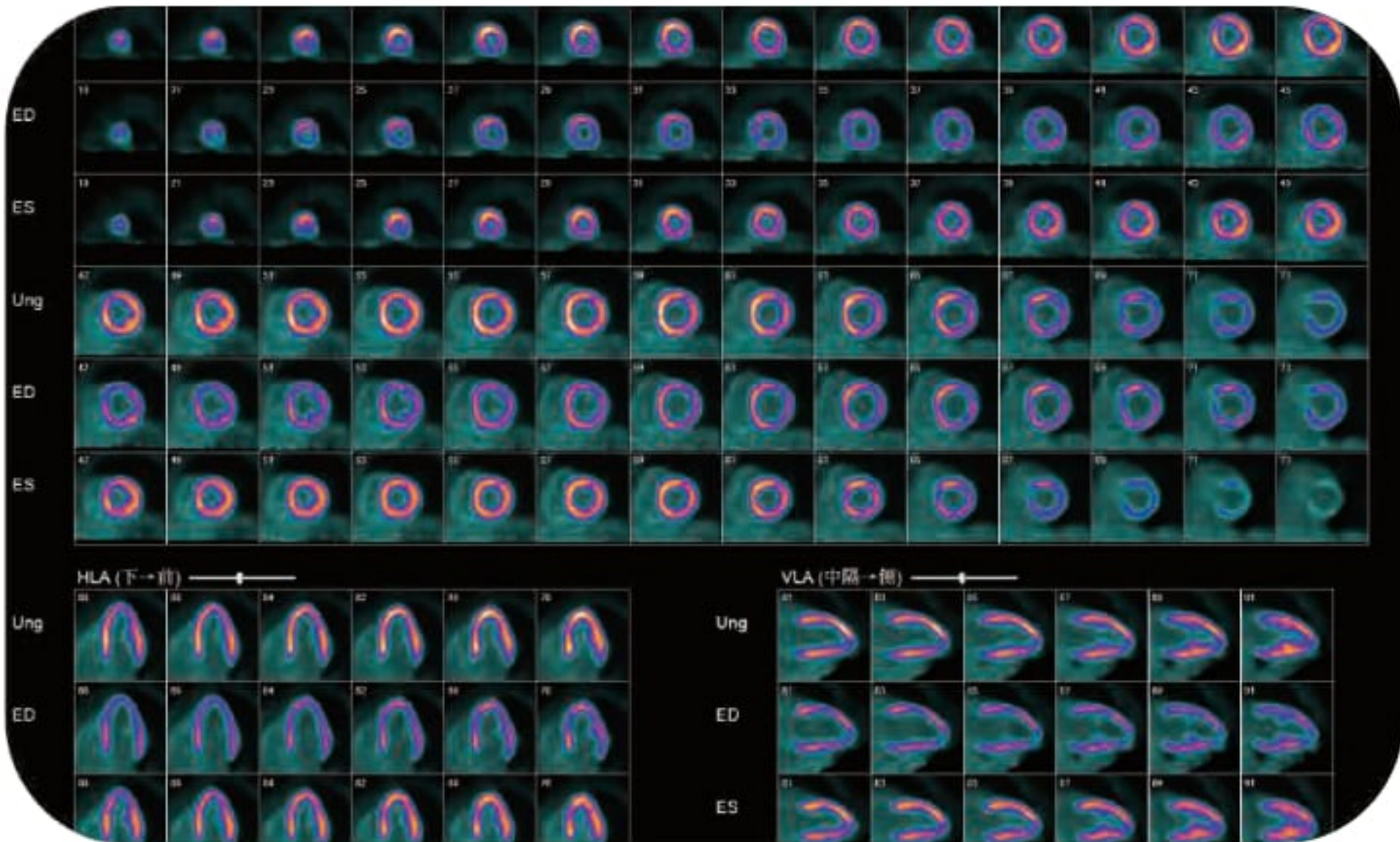




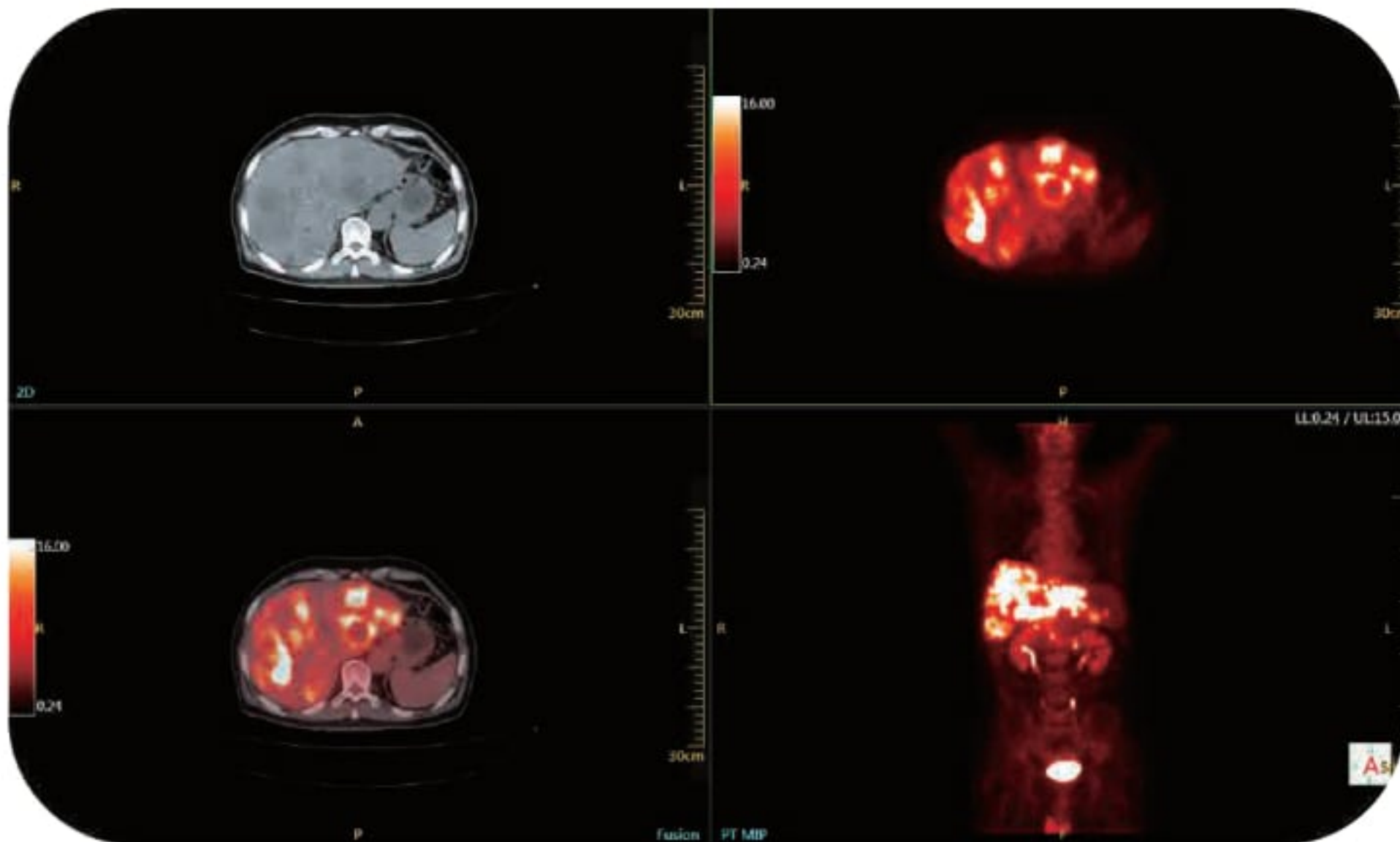
# Clinical Imaging



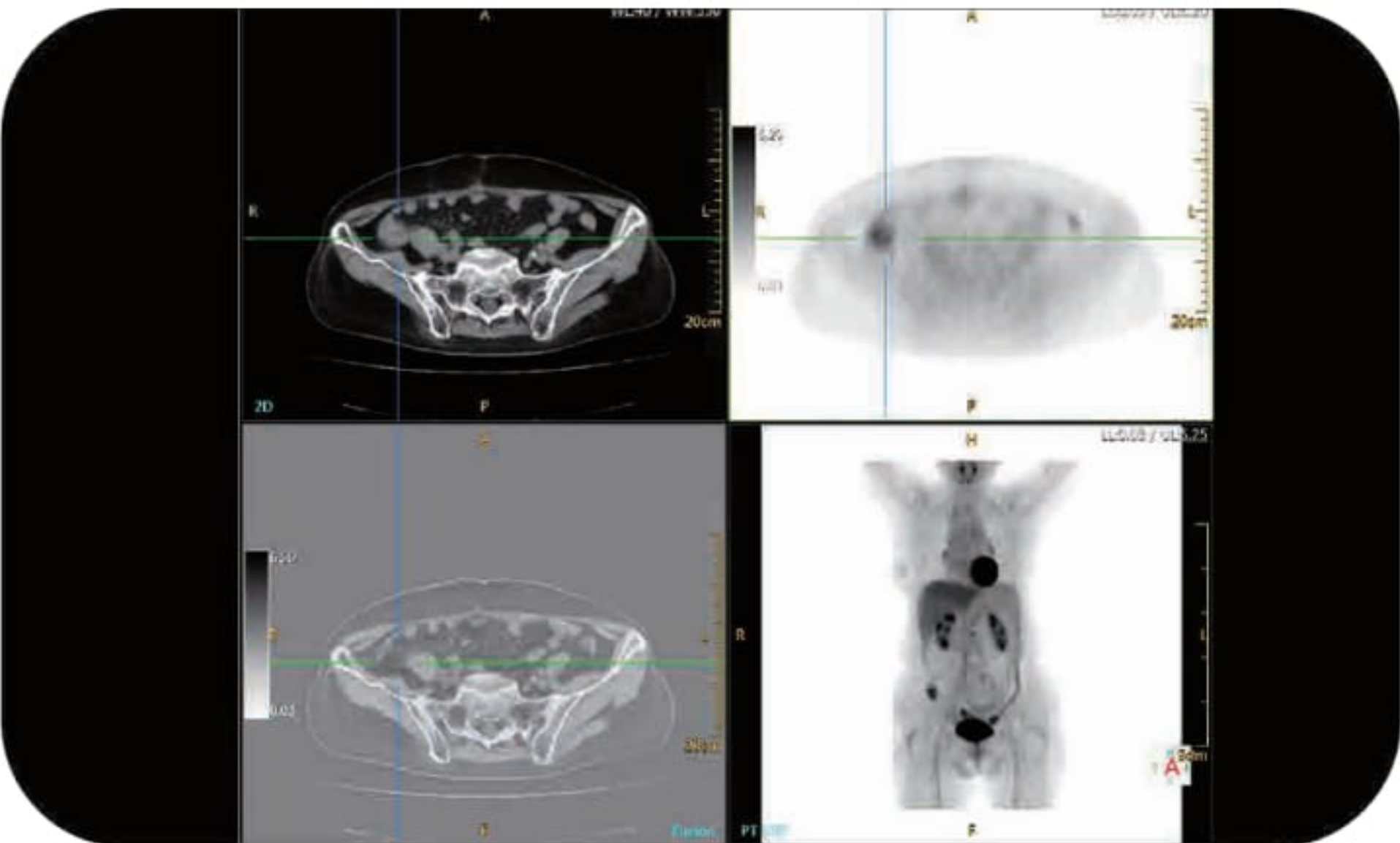
4DM Cardiology Quantification



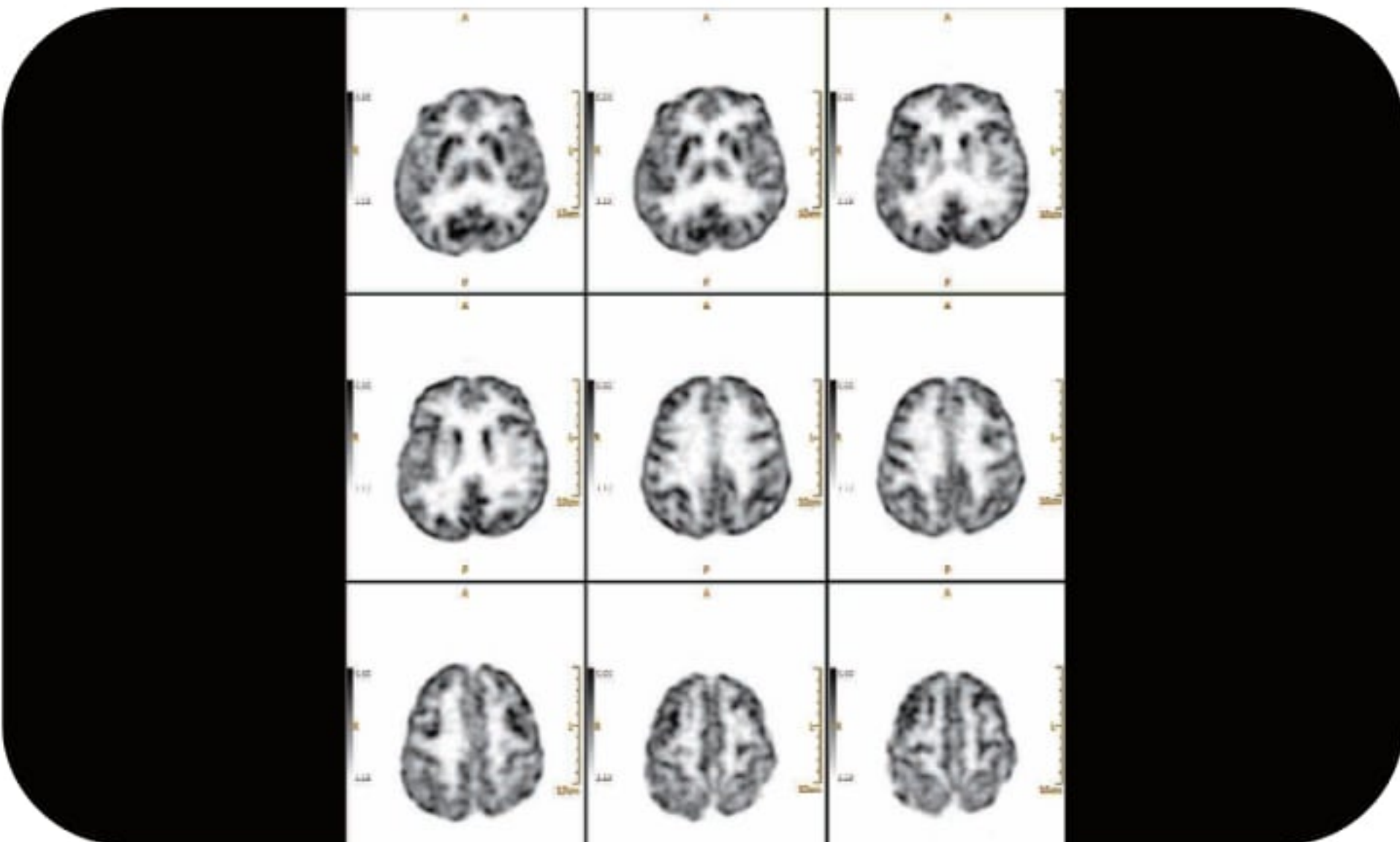
PET Myocardial Perfusion



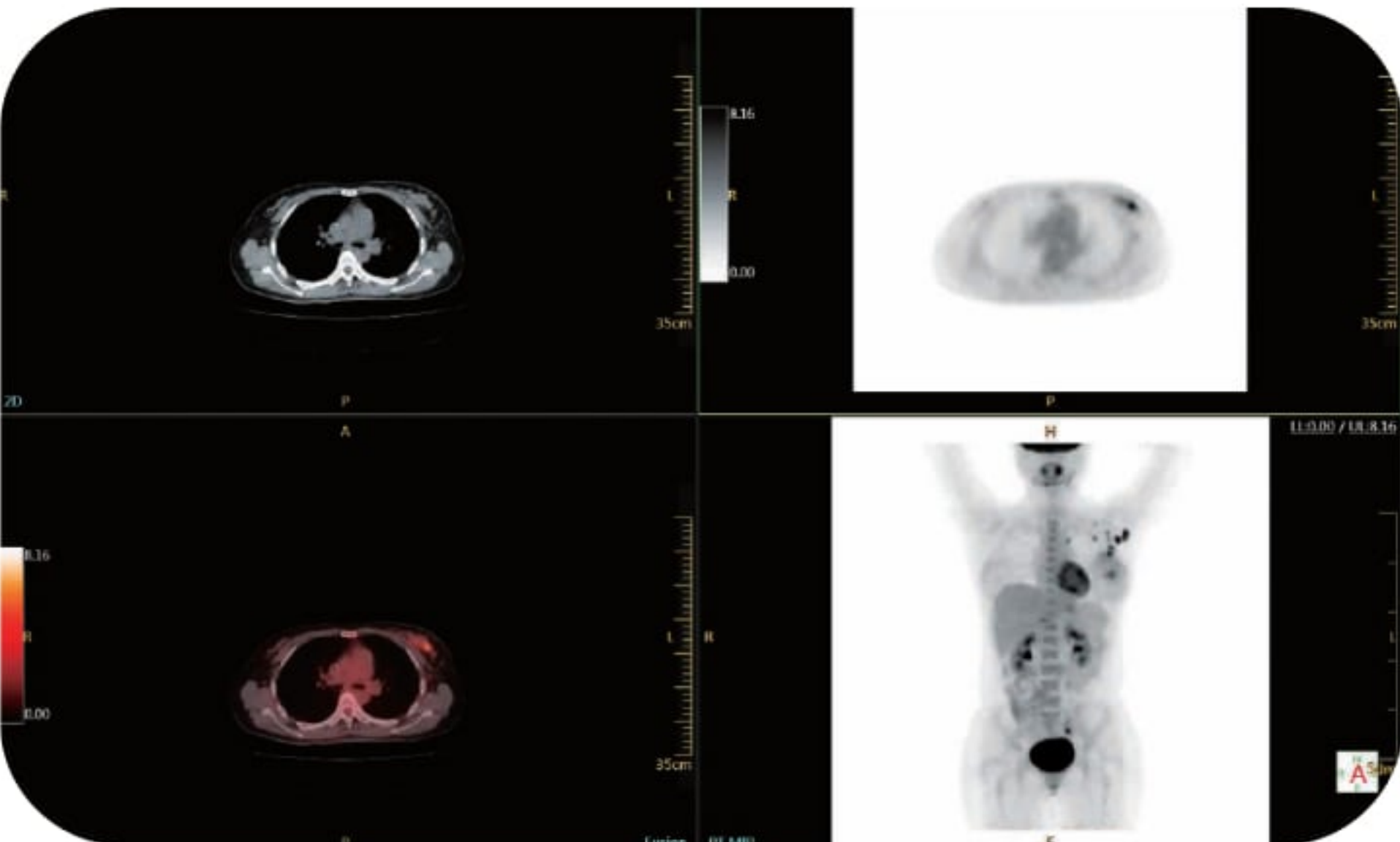
Hepatic - Ca Liver Metastatic Lesions



Post-operative Ca Colon

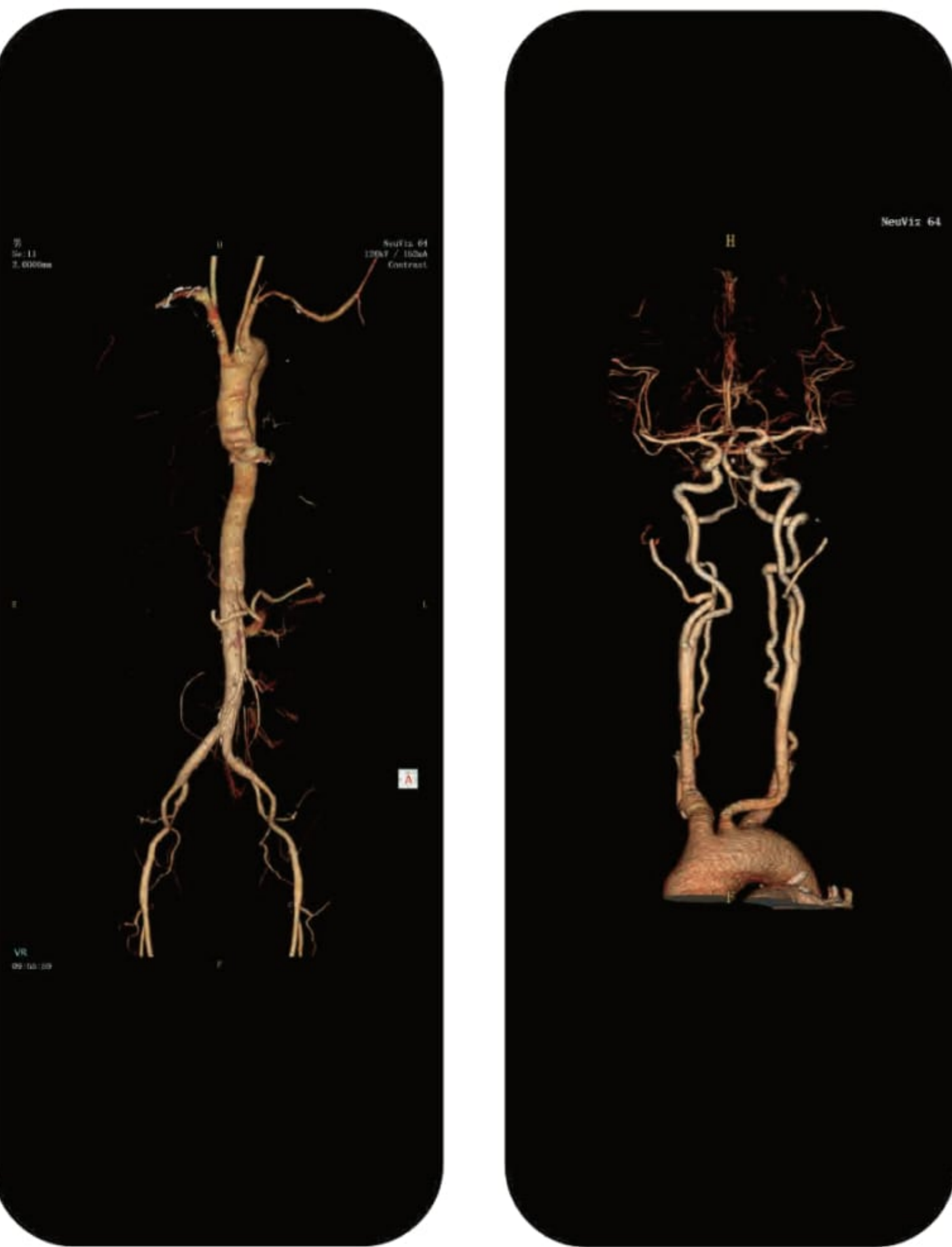
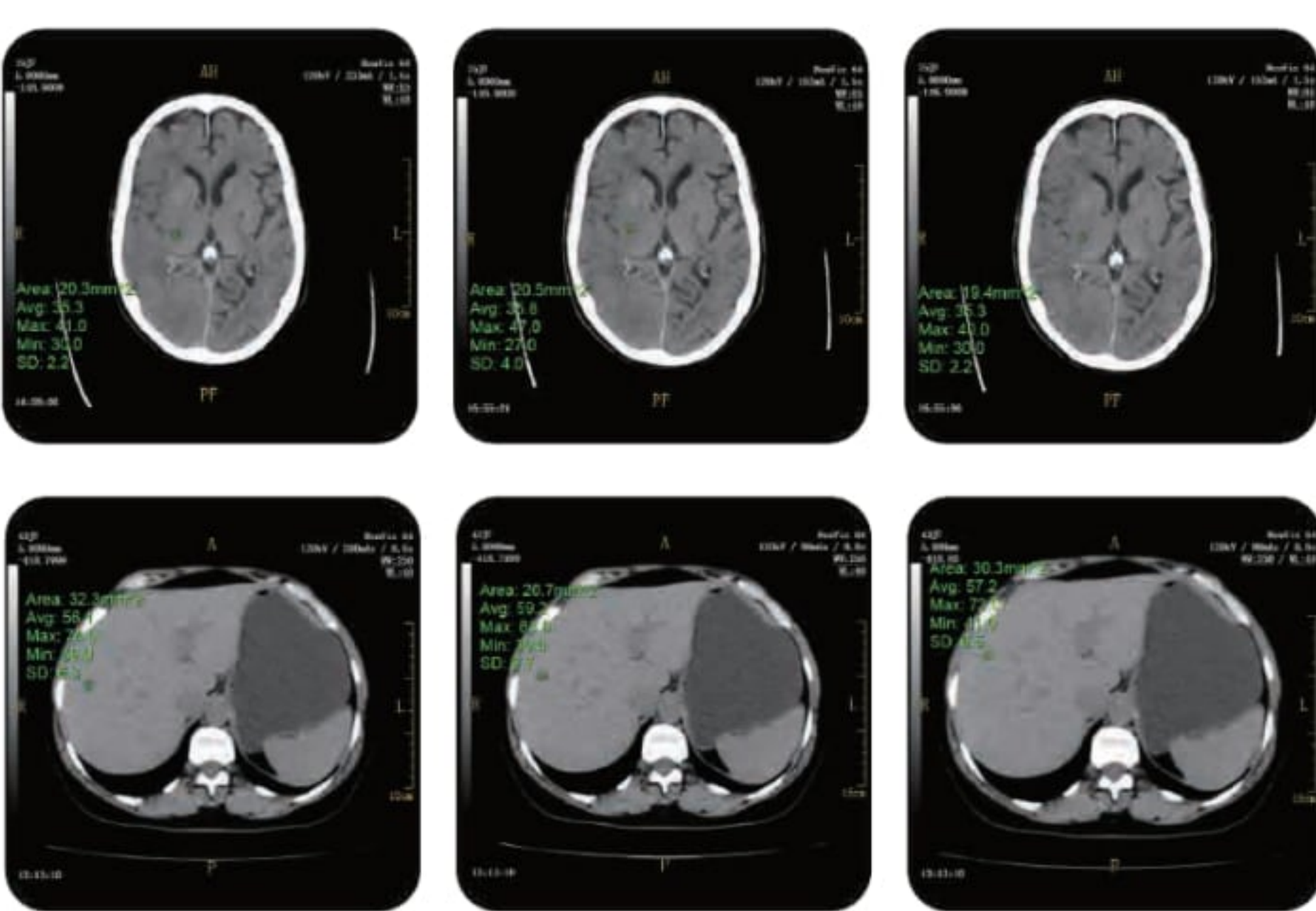


PET Brain - Indication R/O  
(Tumor/Alzheimer's disease)



Skeletal images

# NeuViz 64 In CT Imaging





# An innovative large curved monitor paired with an intuitive operating system



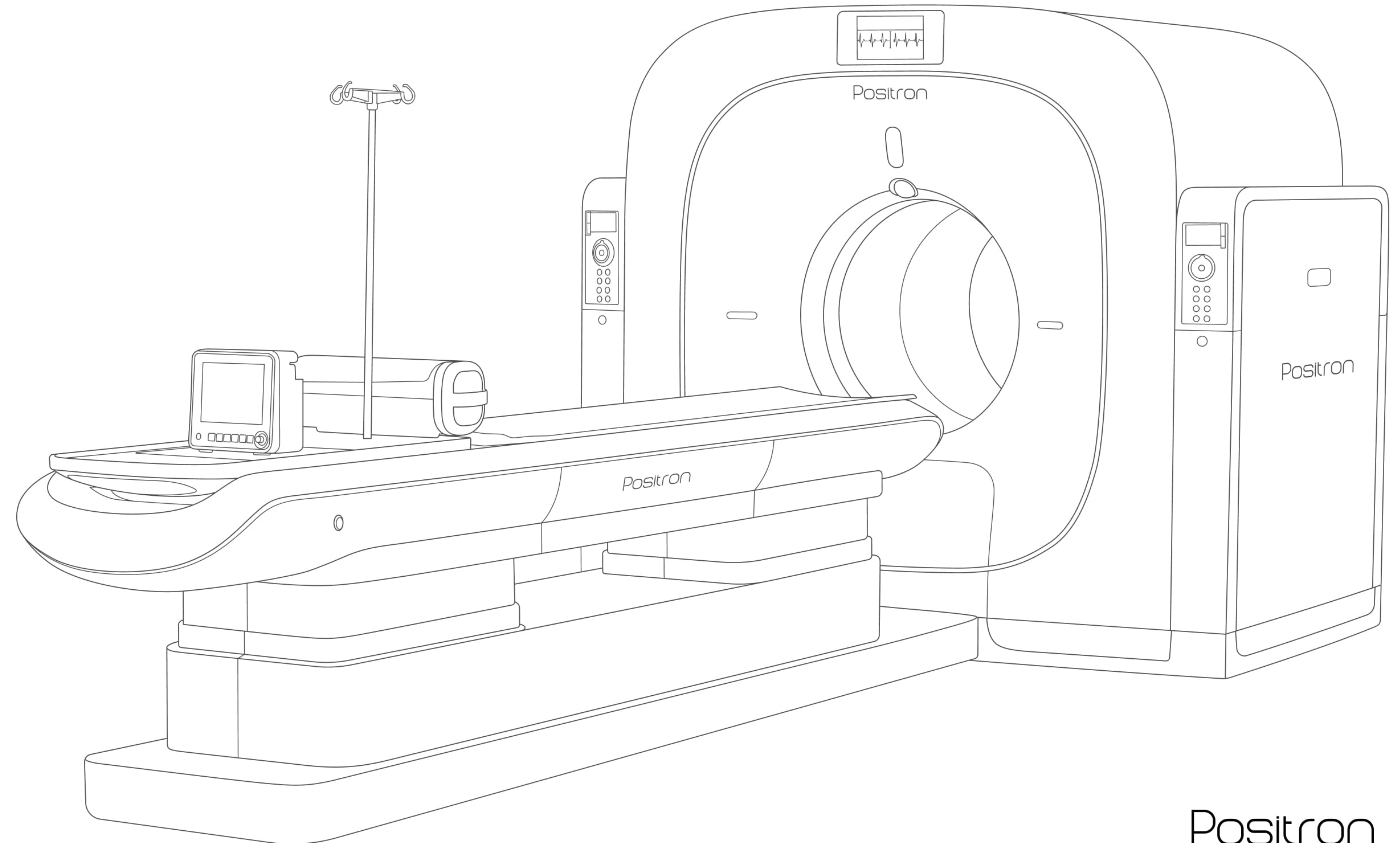
## 21:9 Large Workstation

Providing a comfortable visual experience with crossover innovation, widescreen acquisition, seamless switching, and one-key workflow for automated quantitative analysis.



## PET-CT Control Box

The intuitive design and remote-control scanning enhance workflow efficiency with ease of use.



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The background features a dark gray field with several concentric circles of varying shades of gray. A thick, dark diagonal line runs from the top right towards the bottom left, intersecting the circles.

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**The Future of Cardiac PET Imaging**

[www.positron.com](http://www.positron.com)