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Value from Innovation

# Supria128
## OPEN & COMPACT 64ch/128slice CT

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# “Supria128”provides Next Standard CT

Due to the advance of medical care, CT device needs to be optimized
for patient care and accelerate clinical decision-making more than before.
On the other hand, the economical benefit is also demanded
on medical finances due to rapidly growing aging society.
Supria128 has evolved in order to respond to the paradigm shift
in the medical field with employing latest technologies such as
whole-body submillimeter high-speed imaging
and dose reduction technologies, which have become
the "Next Standard" for challenging various clinical demands.

“Supria128” is a new solution that responds to
healthcare needs in the medical field.

## 64ch/ 128slice

# “Supria128” provides Lower Dose, High Quality Image

## Iterative processing for routine examinations

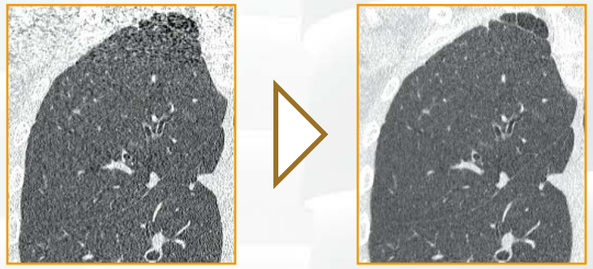
Iterative Processing, which is useful for dose reduction, requires a large amount of calculation, making it difficult to apply to routine examinations. In "Supria128", the image processing unit has been renewed and the processing speed has been improved in order to use iterative Processing (Intelli IP) for routine examinations.

### ■Optimal settings for each facility

Noise reduction strength can be selected from 7 levels. We provide high-quality images by reducing image noise and artifacts with an appropriate exposure dose according to the facility's operation policy.

### ■ Low tube voltage scanning

In general, low tube voltage scanning can be expected to increase CT values and improve low-contrast resolution with iodine contrast agents. The noise increased by low tube voltage imaging can be reduced by Intelli IP, also reducing the burden on the patient.

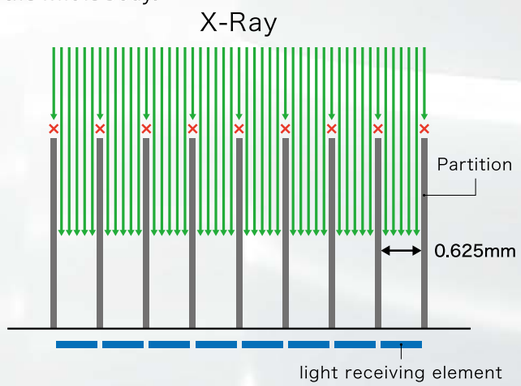



## With submillimeter (0.625mm) scan any region on the whole body

Equipped with a 0.625mm x 64ch = 40mm high resolution wide detector, submillimeter imaging is possible in a short scanning time at any region on the whole body.

### ■ Minimum slice width 0.625mm

The X-ray detector is separated by a partition. The X-ray utilization efficiency decreases by the thickness of this partition. There is a trade-off between X-ray utilization efficiency and spatial resolution, and a detector with a minimum slice width of 0.625 mm is equipped.

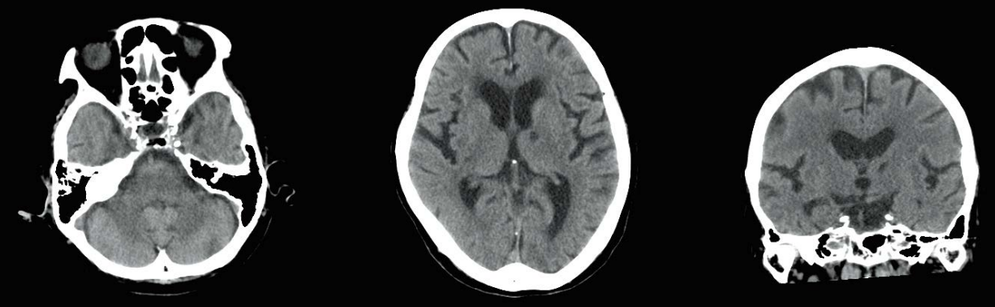



### ■ Clinically effective

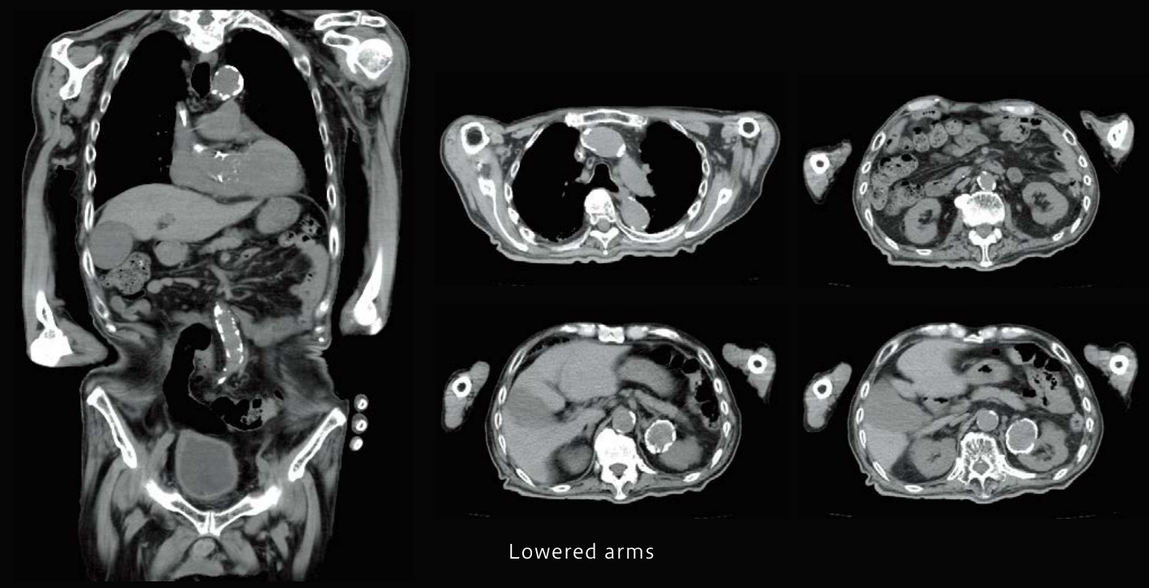
Since it is possible to take a wide range of scans, it is effective for various examinations such as head,lowered arms, and abdominal multi-phase scanning.



High-speed Scanning



Lacunar infarction (Normal Scan)



Lowered arms

Abdominal CTA (100kV)

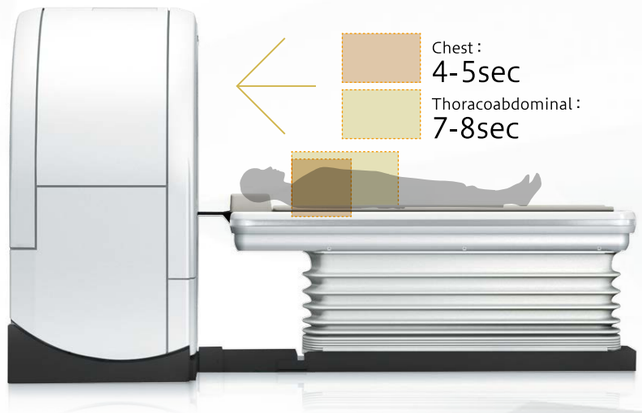
# “Supria128” provides Comfortable Patient Care

## In-Room Operation

Scanning can be started / stopped on the gantry while monitoring the situation changes at a position close to the patient. This improves the workflow between the operation room and the scanning room and consider the safety for smooth examinations.

## High throughput, high image quality

High performance, such as high-speed rotation, submillimeter slice imaging, powerful X-ray generator and state-of-the-art image reconstruction algorithms, realizes high resolution and high throughput examinations.




## High pitch scanning not limited to FOV

Our original 3D image reconstruction algorithm CORE method allows scanning with whole specification range of the slices thickness and FOV.

*: Depends on the specifications of the device

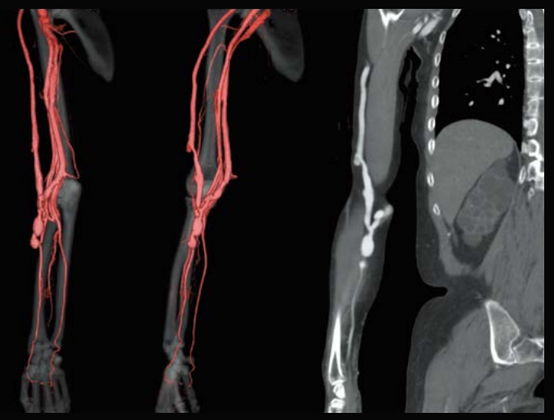


## High-speed Scanning

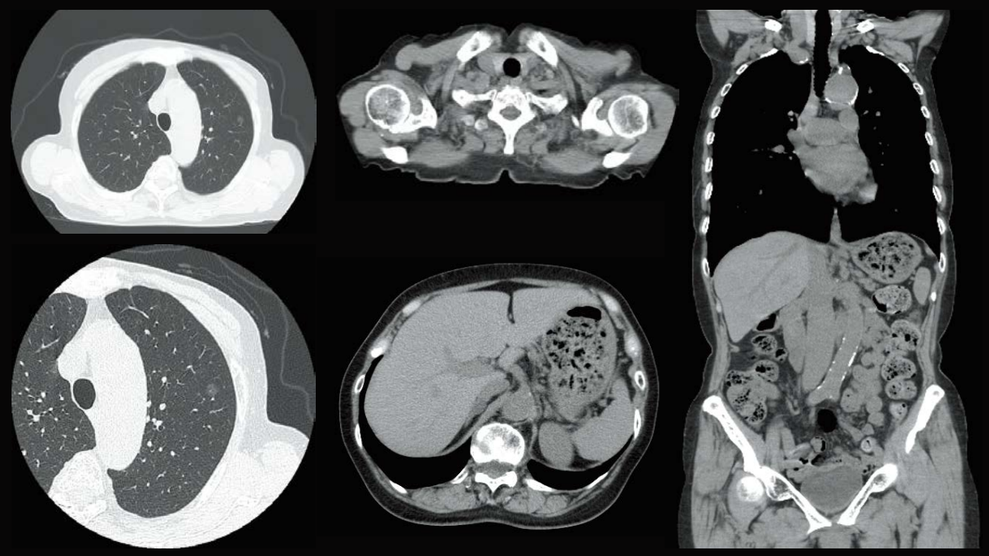
Brain tumor

Head Neck CTA

Metastatic bone tumor



Shunt

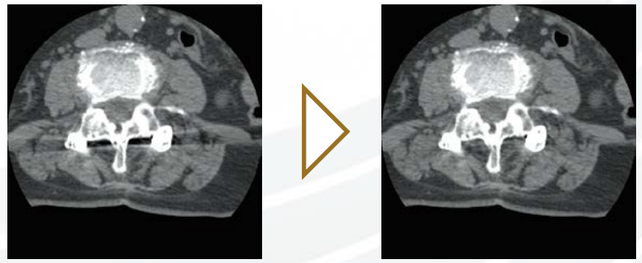


Ground-glass nodules (the fastest scan)

# “Supria128” provides High Functionality

## HiMAR reduces metal artifacts

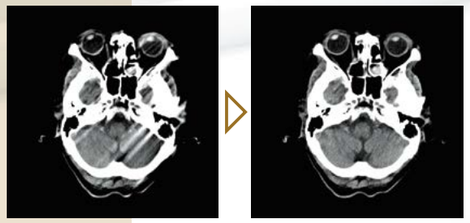
HiMAR (High Quality Metal Artifact Reduction) adopts unique algorithms for estimating and correcting artifacts based on metal data.



OFF ON

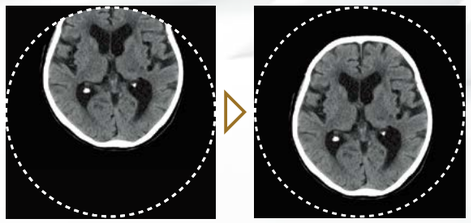
## Helpful function to reduce the burden on the patient

Equipped with a motion artifact correction, body movement can be compensated even after scanning.Even if the patient is out of the effective field of view, such as a patient with a kyphosis, images can be reconstructed without re-scanning in case it is within the maximum effective field of view.



OFF ON

Motion artifact correction



OFF ON

Full FOV data acquisition

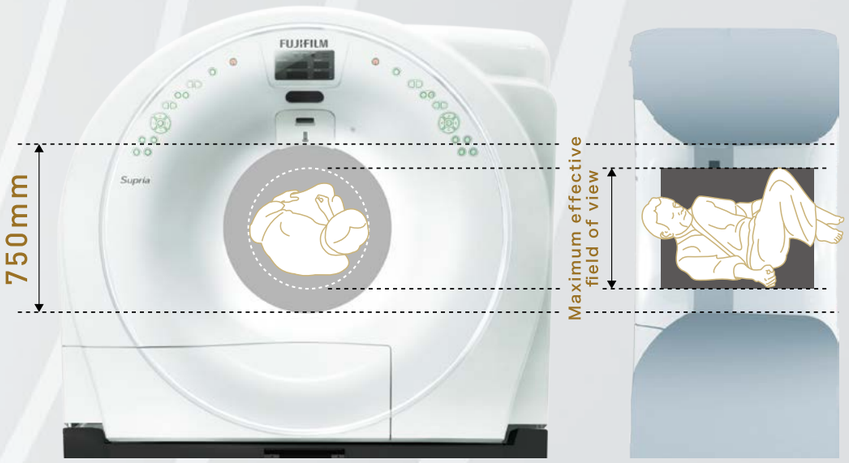
## ECG Prospective scanning in synchronization with electrocardiogram

ECG Prospective scanning is a function that scans and achieves image in synchronization with electrocardiographic information. Images achieved by ECG Prospective scanning can be used for calcium scoring analysis*.

* A 3D workstation equipped with a calcium scoring analysis is required.

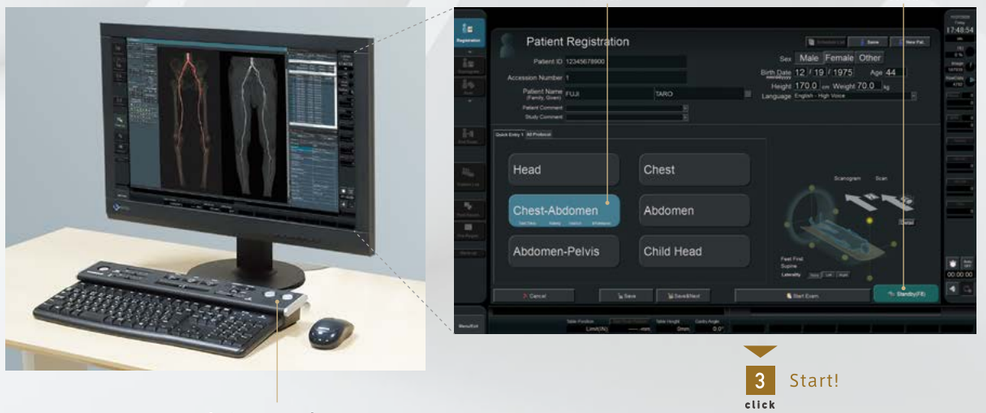
## Capable of imaging in various patient's positions

With a large bore of 750mm and a maximum effective field of view that reduces anxiety of the patient, it is possible to scan with various patient's positions.

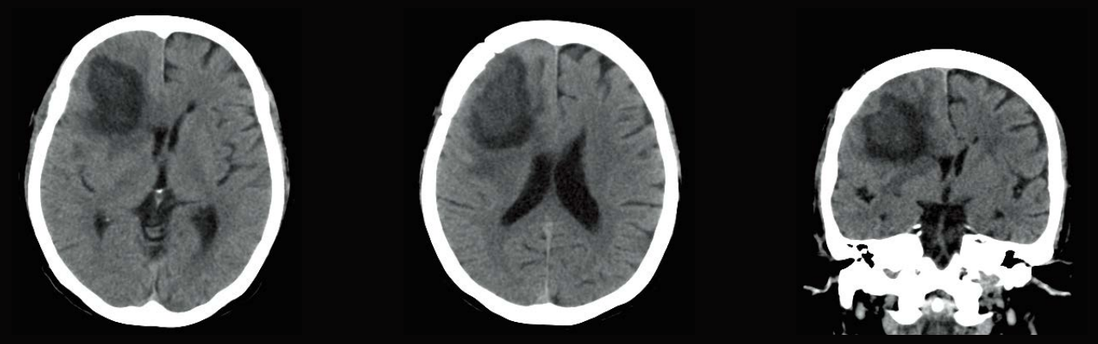



## Intuitive operability with Quick Entry

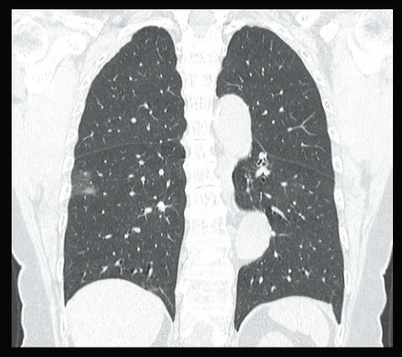
The scan button is located on the intercom box, just above the keyboard, with simply arranged operation buttons, large text, and an easy-to-understand display, which support examinations efficiently.



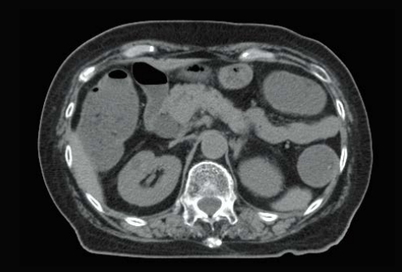
# Clinical Images with Intelli IP



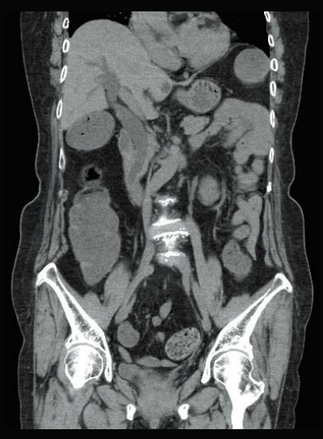
Glioblastoma



Pneumonia

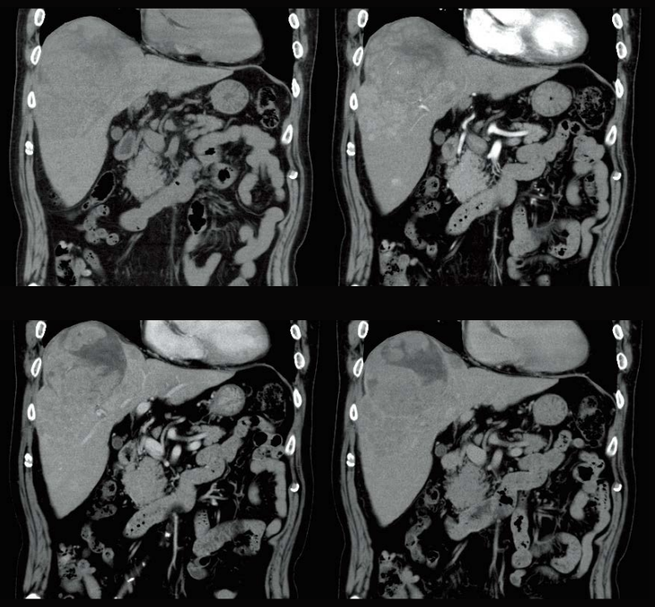


Ileus



Internal carotid artery stenosis

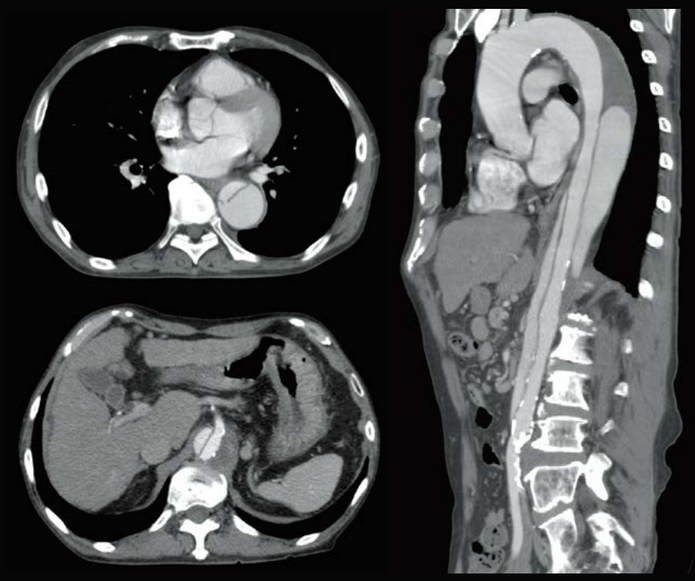
Colorectal cancer



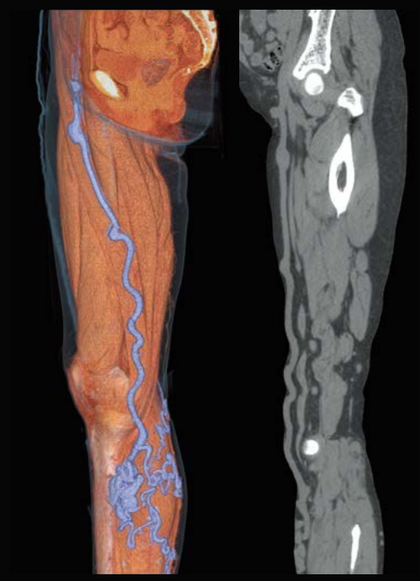
Hepatocellular carcinoma (Dynamic)

Arteriosclerosis obliterans

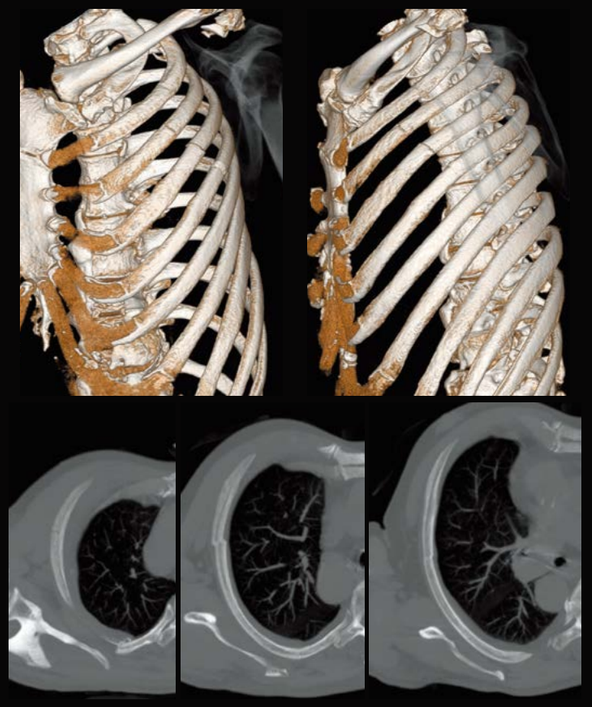
# Clinical Images with Intelli IP



Dissecting aortic aneurysm



Greater saphenous varix



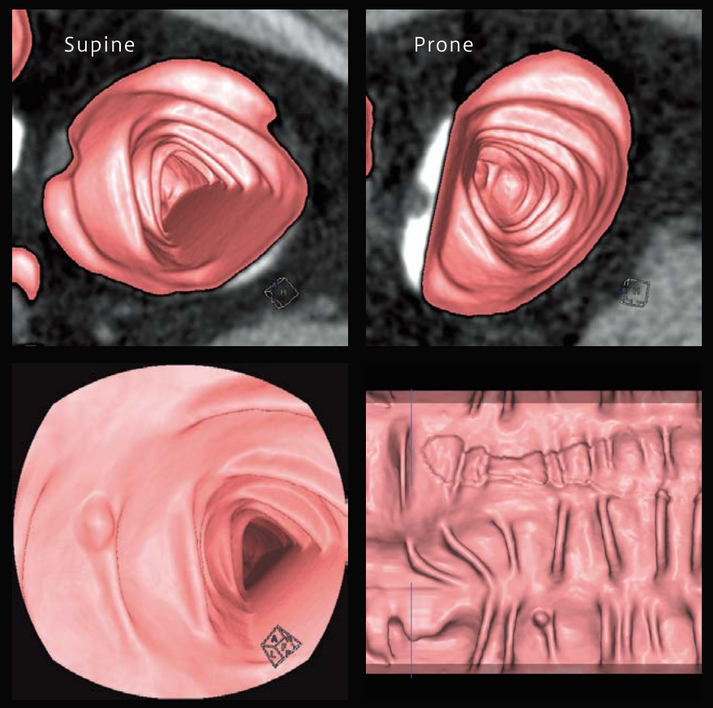
Clavicle・rib fracture

Scaphoid fracture

Deep vein thrombosis

Tibia fracture

Compression fracture




Colonic polyp

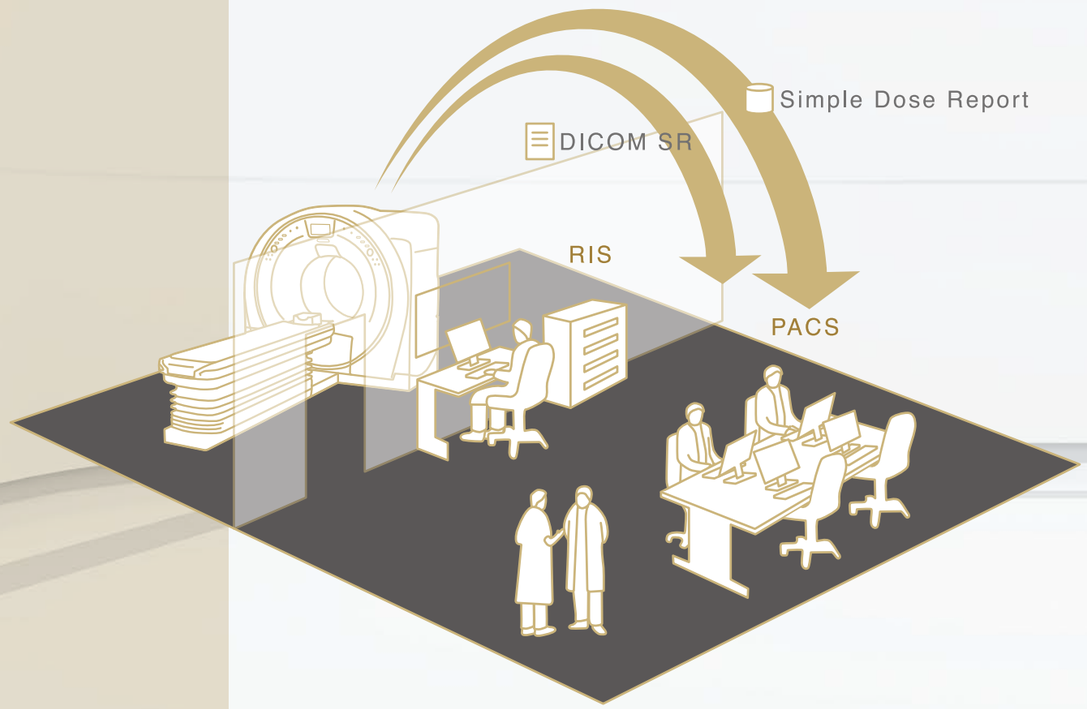
# "Supria128" provides Comfortable Work Environment

## Simple Dose Report

Dose information can be transferred to PACS as a secondary capture image.
Using the PACS image viewer, the dose information can be checked together with the CT image.

## DICOM SR

Using the DICOM standard, it is possible to transfer dose information as a DICOM Structured Report (DICOM SR) to PACS, etc.



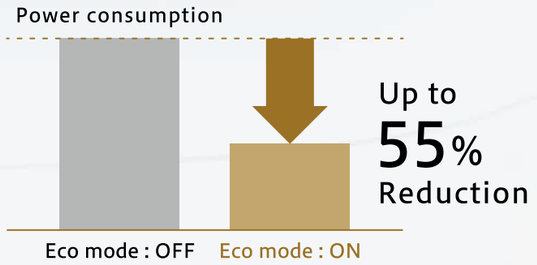

## Small footprint with 3-unit configuration

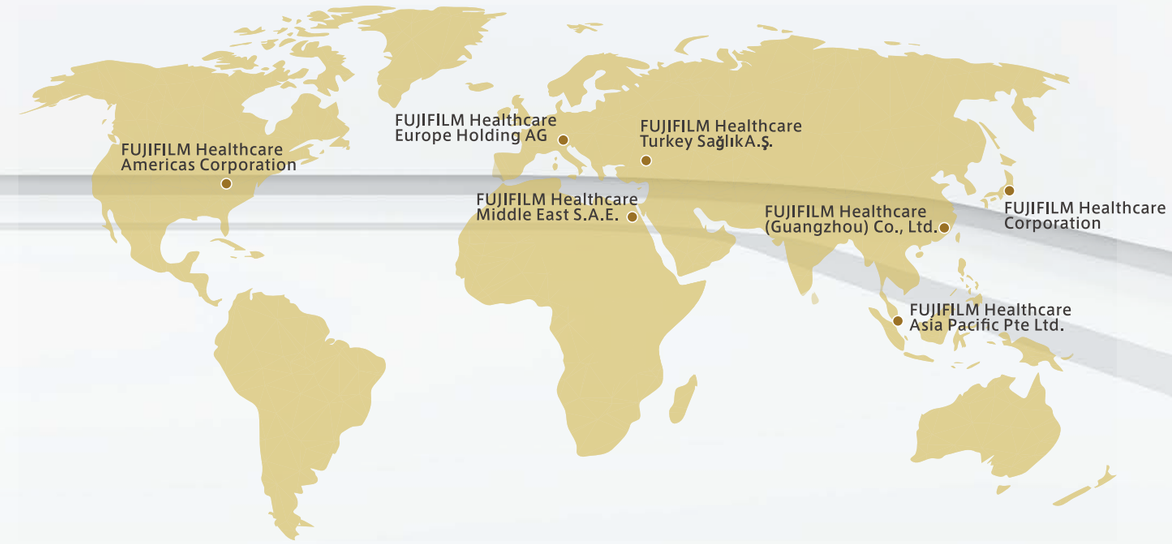
Only the gantry, the patient table, and the operation console configuration* is realized. There are no other separate units with build-in system transformer, so the space in the CT room can be used effectively.

* For power supply voltage 200V

## Eco mode reduces stand-by power consumption

Supria128 is equipped with both On-time stand-by and Off-time mode function. With these Eco mode functions, it reduces power consumption of equipment in the gantry and energization time of the X-ray detector, thereby reducing power consumption during stand-by.




## Global Network

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