Medical Imaging

Toward Solving Material Issues

15,May,2023

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Corporate Senior Vice President

Division President of Healthcare Business Headquarters

Business in the Medical Imaging Field

X-ray Imaging

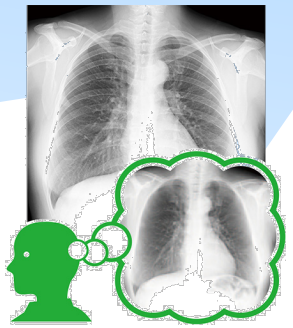
Diagnostic Ultrasound

Vital sensing

Healthcare IT

Leading X-ray Diagnostic Technology for 90 Years

Image Processing Services



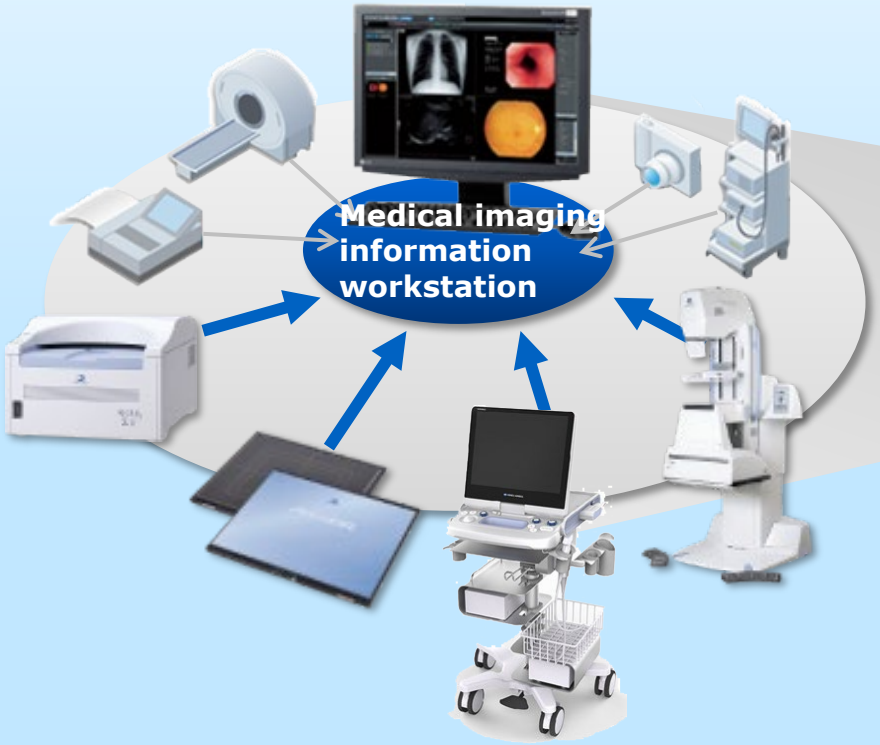
2011
World's Lightest Cassette-type Digital Radiography (DR)

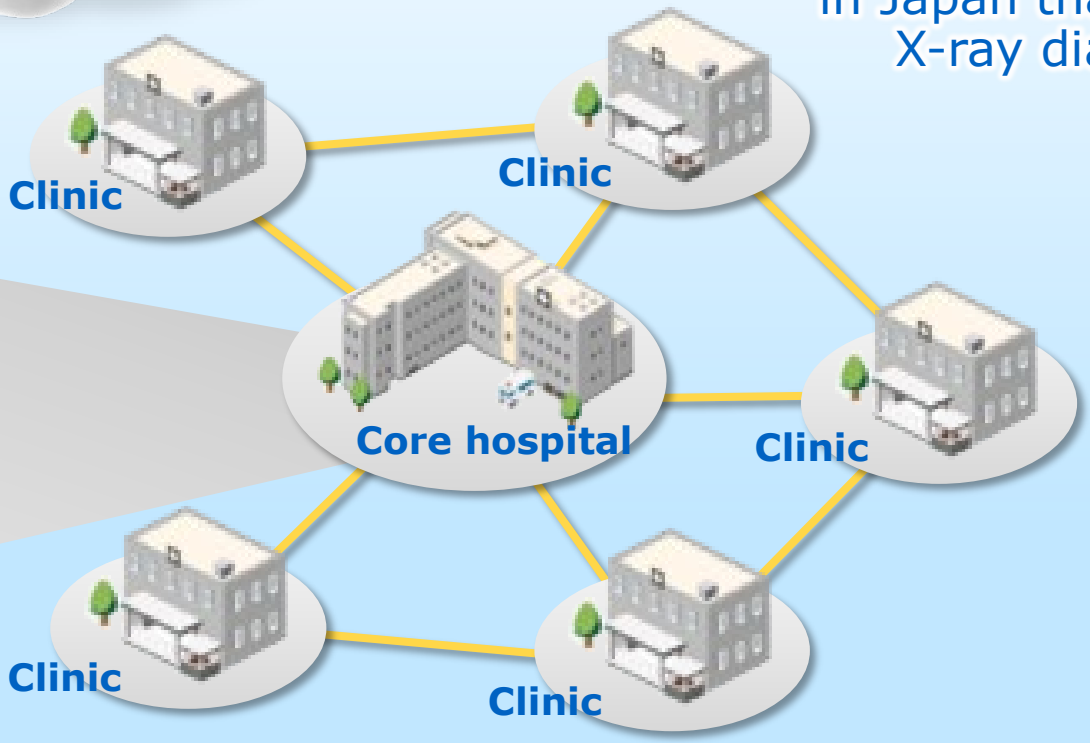
1999
Cassette-type Computed Radiography(CR)

1933 Sakura X-ray Film

2018
Dynamic Digital Radiography (DDR)

ICT Service Platform for Medical Institution





Number of introduced clinics

20,000

About 40% of clinics in Japan that perform X-ray diagnosis

Enables Advanced Medical Treatment with Simple Solutions

Supporting Healthy, High-Quality Living

Improving Quality **O**f **L**ife

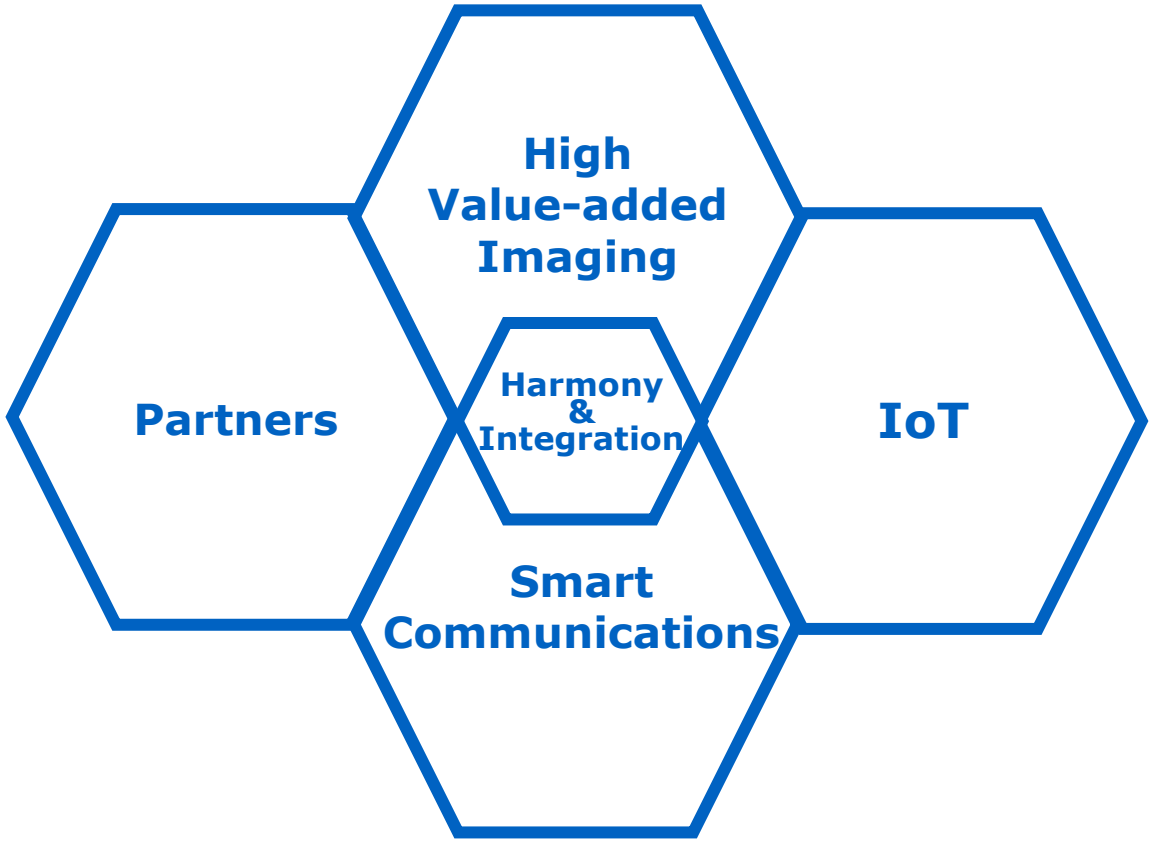
Early Diagnosis

Medical Cost Reduction

Strategic Framework

Co-creating value
with customers

Strategic
partnership



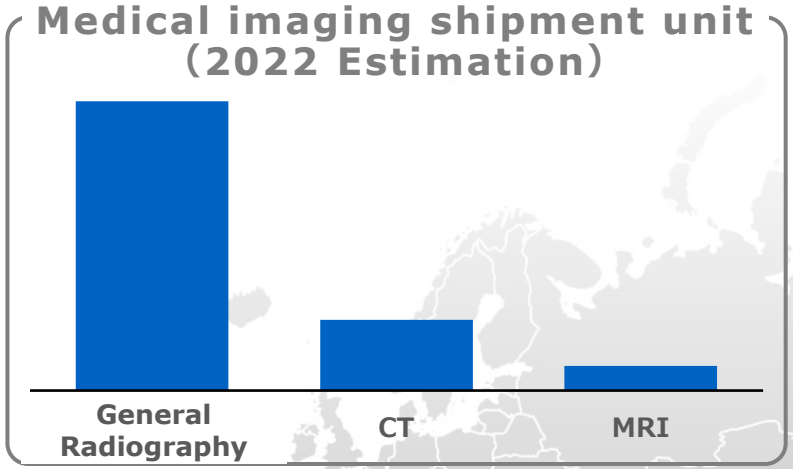
Cloud Service
Business

DX in Communication

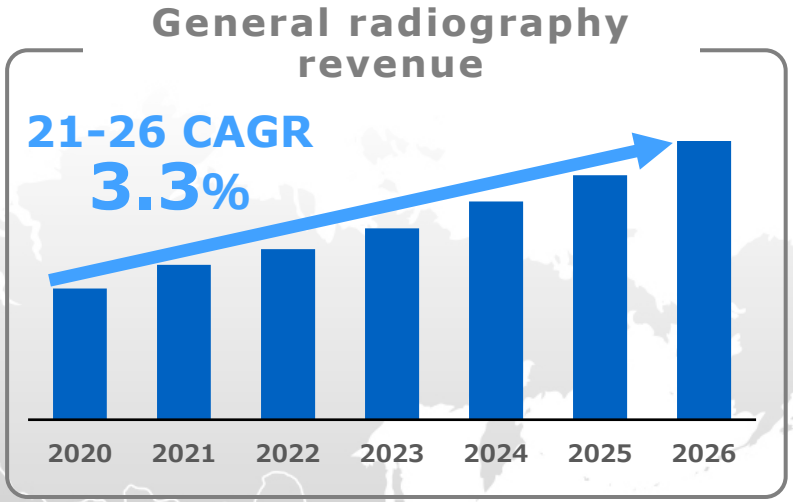
Issues in the Medical Frontline

Developed countries : Risk of deterioration in medical quality	Emerging countries : Poor medical quality
✓ Shortage of medical personnel ✓ Soaring medical costs	✓ Lack of medical infrastructure ✓ Lack of doctors/skills

Business Environment



Source : OMDIA Medical Imaging Overview - 2022



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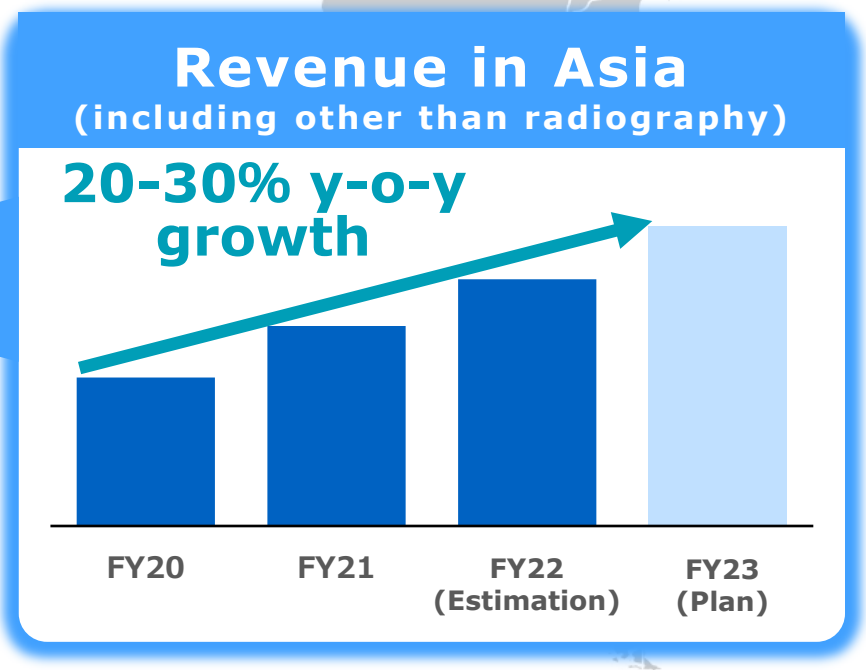
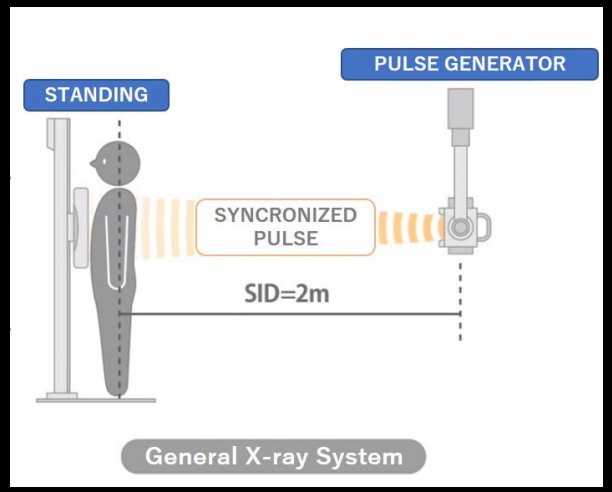


X-rays discovered
in 1895 (128 years ago)

CT became practical

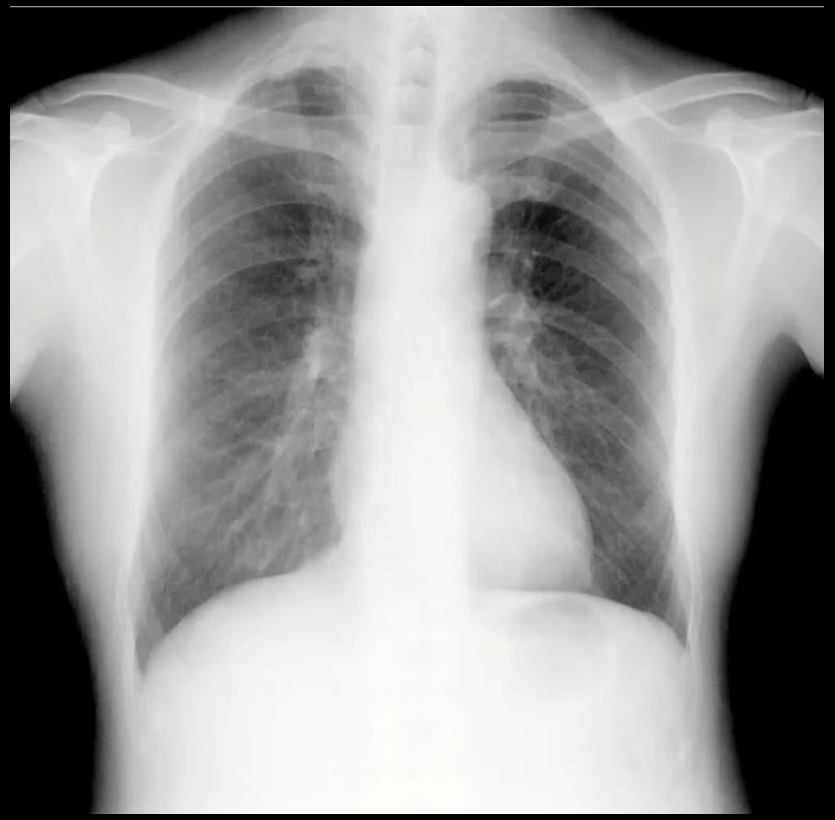
MRI became practical

Dynamic Digital Radiography (DDR) launched
2018/11



Dynamic images can be acquired with general radiography for about 10 seconds

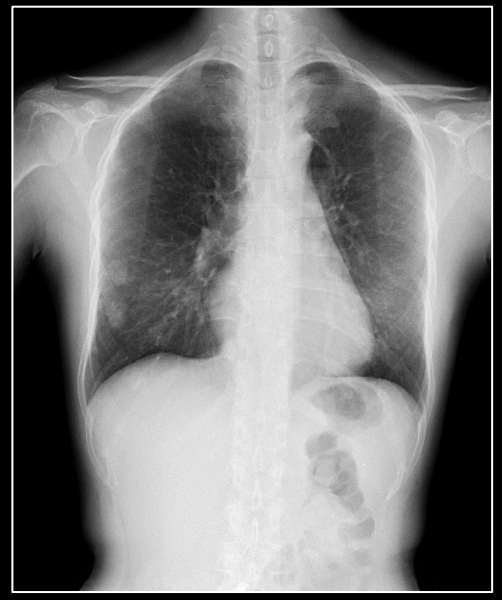
"Static Image" to “Dynamic Image"



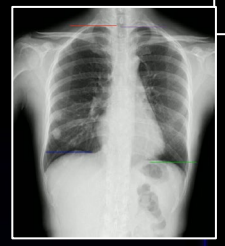
Static image

Dynamic image

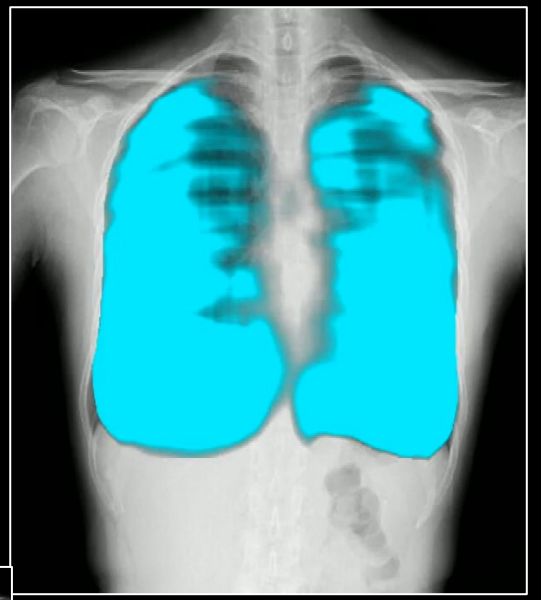
Add “Image Processing" to "Dynamic Images"



Improve visibility

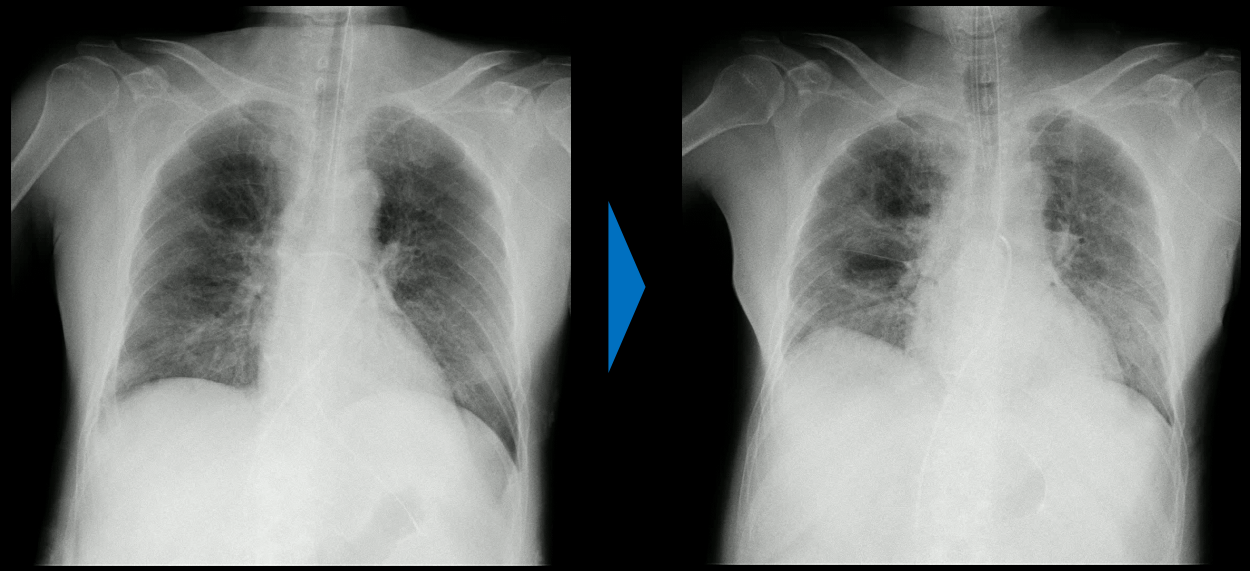


Quantify motion



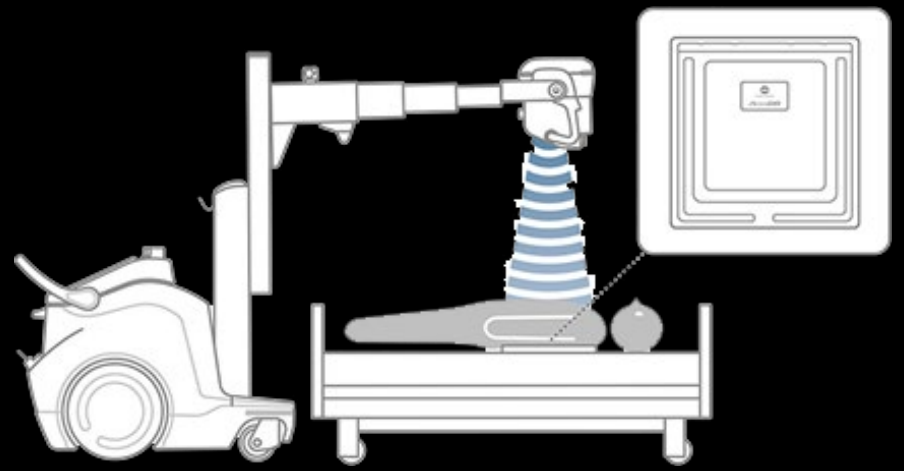
Evaluate lung functional information

DDR image acquisition at bedside for the first time in the world

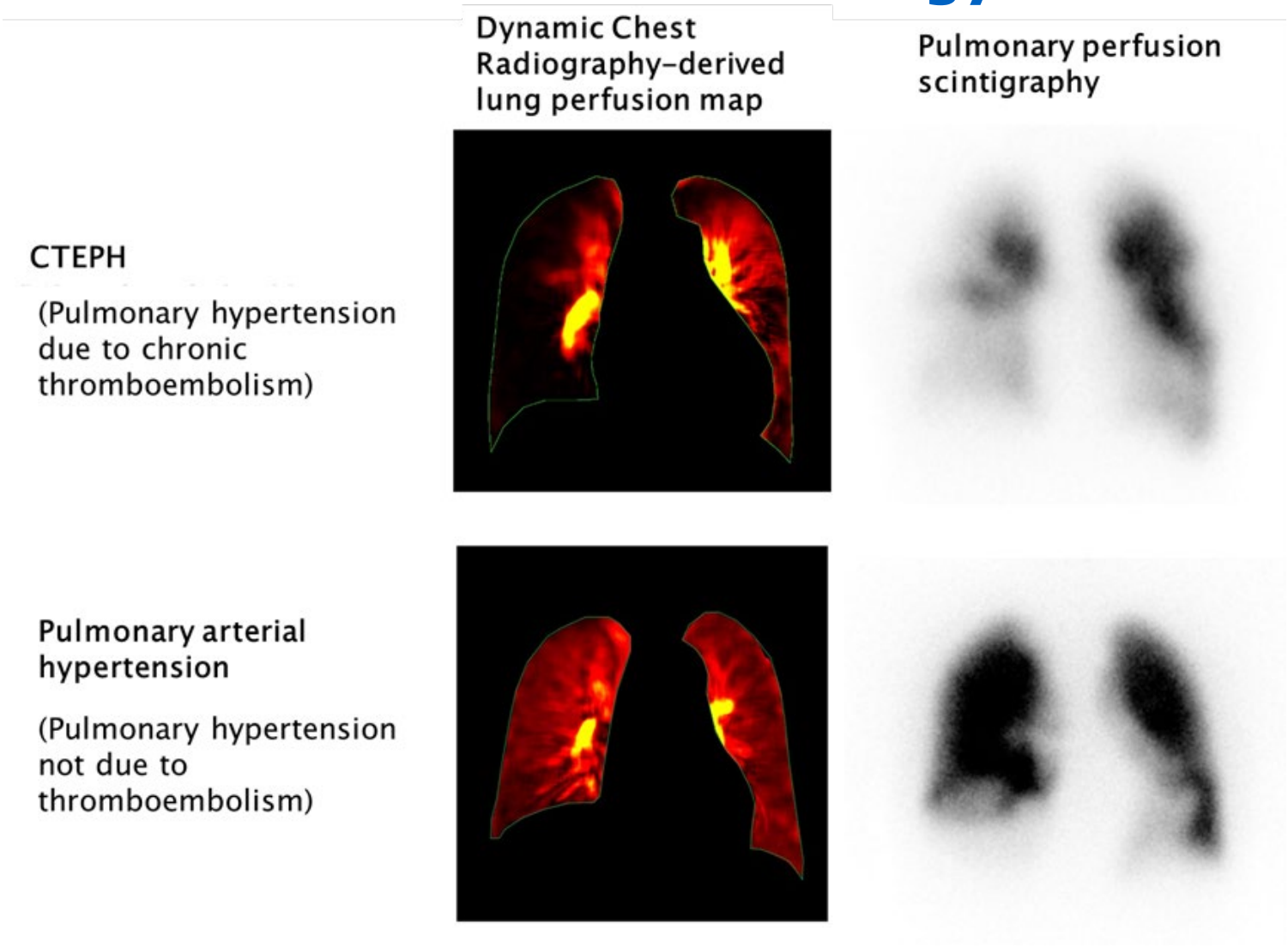


Day 1

Day 2

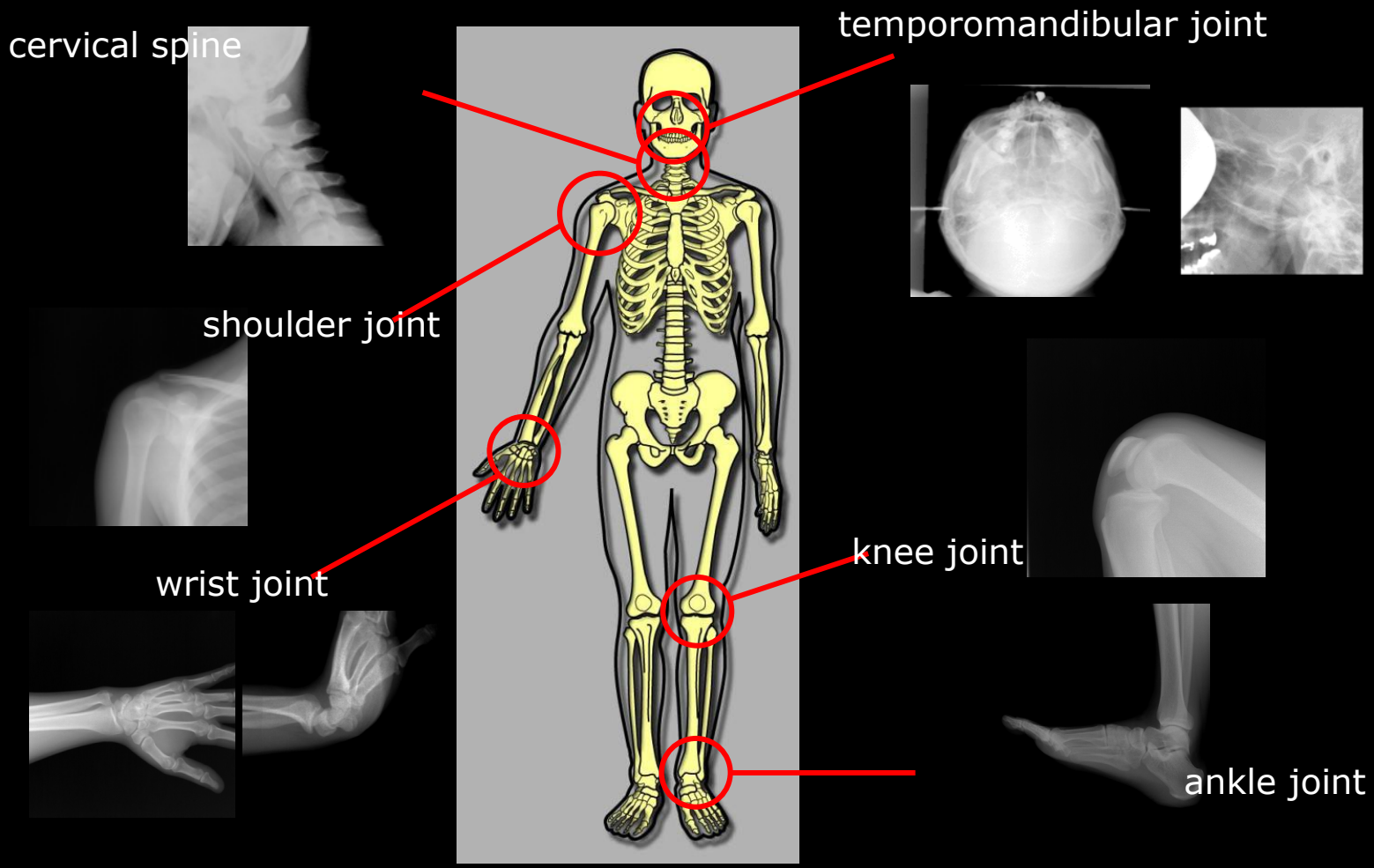


Results of a Study by the Kyushu University Graduate School Published in the Journal "Radiology"



Yuzo Yamasaki, et al. Efficacy of Dynamic Chest Radiography for Chronic Thromboembolic Pulmonary Hypertension. Radiology 2022; [https://doi.org/10.1148/radiol.220908].

Apply to “Orthopedic” and “Musculoskeletal” Field



Introduced to More than 100 Sites Worldwide Install Base

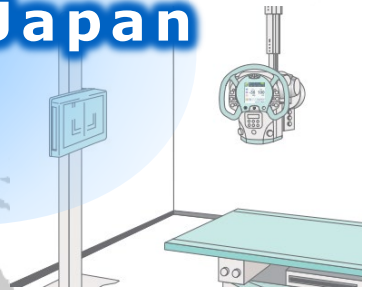
2022~
Europe

2020~
China

2018~
Japan

2022~
Asia

2019~U.S.A.



infomity : ICT Service Platform for Medical Institutions

Huge ICT Service Platform for Clinics in Japan

KONICA MINOLTA 150 YEARS

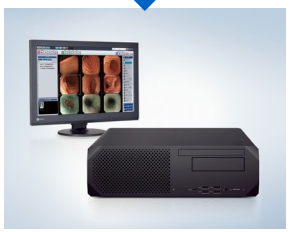
OLYMPUS

AI Vivoly+

Connected

KONICA MINOLTA

infomity

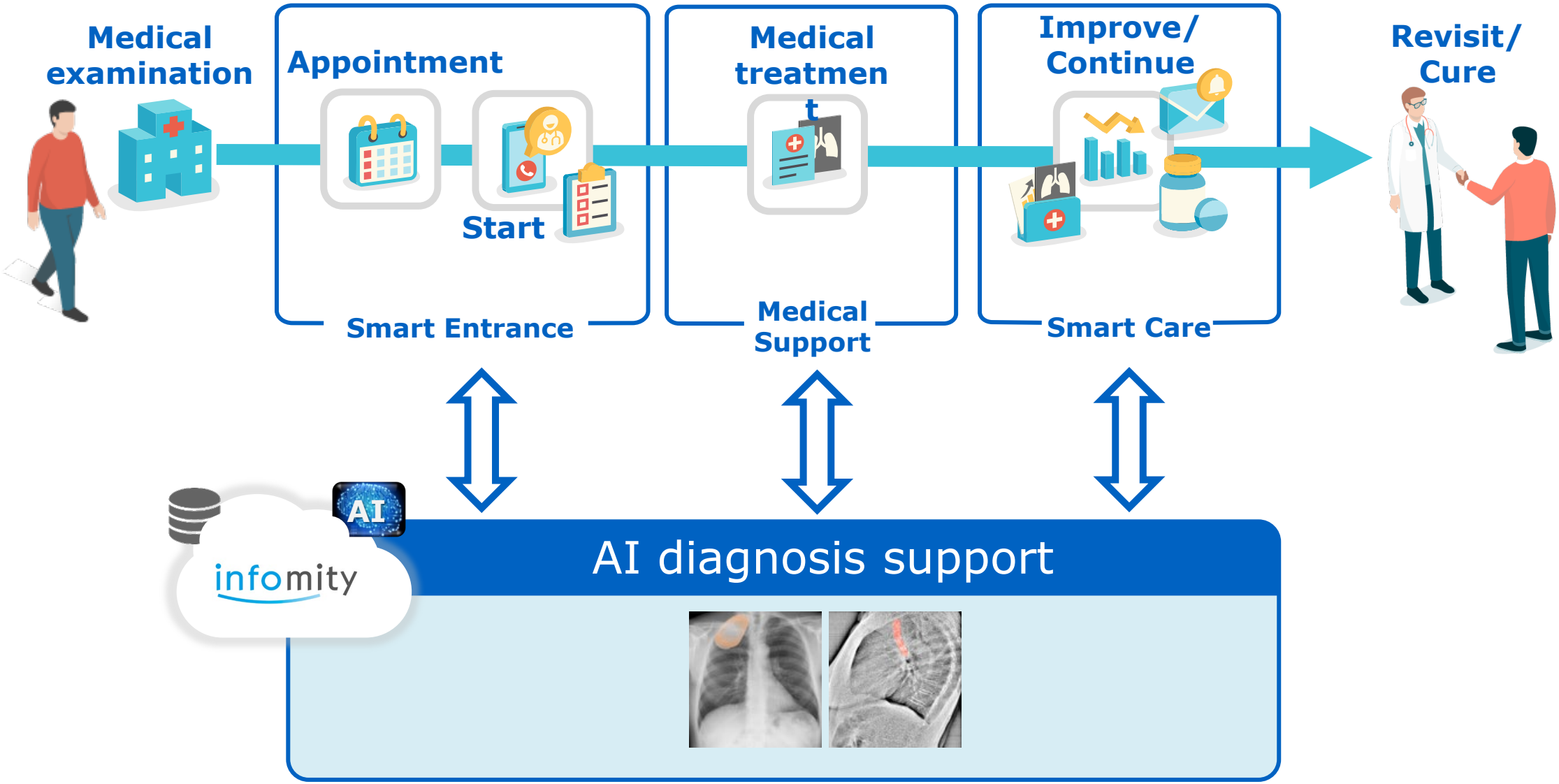


Endoscope

X-ray/Ultrasound

Telemedicine

Connecting Clinics with Patients as a Significant Social Infrastructure




KONICA MINOLTA
150
YEARS

Appendix

Main Product/Service Lineup

X-ray diagnostic

Digital Radiography
AeroDR series

KDR DDR* Advanced U-Arm System

Mobile DDR* system "AeroDR TX m01"

DDR* Workstation "KINOSIS"

Image Processing Software "CS-7"

Computed Radiography

REGIUS Σ II

Uniteaa

Healthcare IT

FINO.VITA series

- Medical image management system 「FINO.VITA.GX」
- Medical diagnosis solution 「FINO.View.Pro」
- Medical diagnosis report system 「FINO.REPORT」
- Dose monitoring system 「FINO.Xmanage」
- Medical image management system for mammography 「FINO.VITA.GX typeMG」
- Breast structure analysis software 「Breast Density Assessment」
- Total operation management system 「FINO.WorkManage」
- Total medical information system 「FINO.Integra」

infomity

- **Imaging diagnosis / reading**
  Bone suppression processing / Temporal subtraction processing / Teleradiology support / AI analysis for Chest CT imaging
- **Hospitals and clinics coordination**
  Coordination BOX / Examination reservation
- **Diagnoses support**
  Telemedicine support
- **System support**
- **Information service**

Ultrasound diagnostic

SONIMAGE HS2

SONIMAGE MX1

SONOVISTA GX30

Vital sensing

Pulse oximeter "PULSOX-Neo"

Jaundice meter "JM-105"

Vital information monitoring system "VS1"

DDR* Dynamic Digital Radiography

Glossary

- DR / Digital Radiography
  Also referred to as digital X-rays. A technique that detects the intensity distribution of the X-rays that pass through the body when an X-ray is taken, and then converts the data to a digital signal, which is processed by computer. Also refers to systems that do this.
- CR / Computed Radiography
  A device that acquires digital X-ray images using stimulable phosphor sheet called imaging plate instead of the conventional X-ray film.
- General radiography
  A device that irradiates X-rays to obtain a transmitted X-ray image of a subject. Also called an X-ray imaging device or X-ray equipment.
- Dynamic Digital Radiography
  These devices and systems enable more detailed diagnoses by using continuously captured X-ray images to observe patients in motion.
- PACS / Picture Archiving and Communication System
  An image storage and communication system for medical image processing. More generally, any system for managing a large number of images, such as CT, MRI, and X-ray images from DR or CR.
- informity
  Our ICT service platform for helping hospitals and clinics deliver care in a variety of ways. Offerings include our medical data sharing service, which allows multiple institutions to share medical data such as examination images and reports, and remote diagnostic support services that facilitate requests for image interpretation.
- Diagnostic ultrasound systems
  These diagnostic imaging systems emit ultrasonic signals that travel inside the body from the outside and create images of the reflected soundwaves. Causing minimal stress for the patient and allowing images to be observed in real time, they are used in a wide variety of clinical settings.