

RADON

MEDICAL IMAGING



Hitachi Echelon Oval 1.5T

radonmedicalimaging.com

We focus on people, innovative products,
and service excellence

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HITACHI
Inspire the Next

OVALTM
ECHELON

THE WIDEST WIDE BORE IN THE INDUSTRY



The Widest Wide Bore in the Industry



74cm Oval Bore

Provides a comfortable and spacious environment around the patient

Widest 1.5T Patient Table (63cm)

Better patient accommodation and decreases anxiety

WIT Coils

Lightweight, multi-element design for high image quality, and easy positioning

550lb Weight Limit

With vertical power motion detachable table

7 Coil Plug-in Ports

Supports head-first or feet-first positioning for all imaging

IV Pole

Deploys effortlessly when needed

3 Position Armboards

Provides patient comfort, safety, and technologist workspace

WIT Monitor

Allows technologist to review and update patient information with ease

In-Room Start/Pause

Operator can start and pause scans at the patient's side

Wireless Gating

Fast and simple connection verified with WIT monitor

In Bore Lighting and Ventilation

Enhances patient experience

Digital Drive DX

A/D Conversion at Gantry
Reduces signal loss and maximizes SNR

Optical Data Transmission

Reduces noise and maximizes SNR

HOAST

Highest guaranteed homogeneity supported by Higher Order Active Shim Technology





Patient Comfort without Compromise

Designed around the shape of the body to accommodate the broadest patient spectrum, Echelon Oval embodies our innovative spirit and unwavering commitment to patient comfort without compromising image quality. Your anxious, claustrophobic, broad-shouldered or bariatric patients will experience greater comfort and peace-of-mind.

Every patient type will benefit from Echelon Oval's vast array of patient amenities.

Inspired By Your Patients

Echelon Oval continues Hitachi's commitment to patient-friendly imaging. The industry's widest bore is complemented by the widest patient table, lowering to wheelchair height and featuring a 550lb. weight limit to accommodate the broadest variety of patient body types while maximizing patient comfort. A host of patient amenities including feet first imaging, adjustable in-bore lighting and ventilation further enhance the patient experience providing the highest level of patient comfort, security and accessibility.

The Oval's revolutionary design merges outstanding patient and technologist benefits that stem from the exclusive ultra-wide oval bore with a suite of Workflow Integrated Technology (WIT) features, and leading-edge clinical capabilities. From patient arrival through exam completion Echelon Oval optimizes the entire process with comfort, efficiency and high performance imaging.

Echelon Oval brings together all the key attributes of a leading 1.5T MR system—patient comfort, accessibility, efficient workflow, and advanced clinical capabilities all covered by Hitachi's industry leading customer support.



Geriatric
Table lowers to 20" for easy accessibility for elderly, non-mobile or infirm patients.



Pediatric
Ample space allows for constant visual and physical contact with a loved one.



Bariatric
More space on the sides means larger patients are afforded greater comfort and accommodation.



Anxious
Roomier where it matters most for greater comfort and less anxiety for all patients.

Synergy Drive for Efficient Workflow

Synergy Drive is the force behind optimizing workflow, comfort and quality with Echelon Oval, encompassing all aspects of the MR system and the MR exam. Synergy Drive brings together Evolution Software and Workflow Integrated Technology (WIT) to provide efficient and reliable patient registration, patient positioning and preparation to quickly move to a suite of automated and easy to use scan planning, acquisition and post processing tools.

Scan Set-up, Acquisition and Processing

Set-up

- Intelligent Parameter Guidance provides real time parameter suggestions
- Image Quality Calculator advises on resolution, SNR, CNR, and scan time when scan parameters are adjusted
- AutoPose automatically positions slices for efficiency and consistency from patient to patient
- CopyDrive for consistent slice positioning from sequence to sequence
- Acquisition Plan enables one plane linked scan positioning with one click start

Acquisition

- QuickScan protocols for brain, spine, knee and shoulder including a complete 5 minute brain exam
- Isotropic imaging allows one acquisition with unlimited reformats – 1 click MPR
- FatSep provides in and out of phase along with fat and water only datasets in one short acquisition

Processing

- Single screen advanced processing tasks
- Auto generated MIP tool and DWI, ADC and DTI maps
- Auto DICOM store to multiple destinations
- Auto subtractions for dynamic studies

WIT Mobile Table

The WIT Mobile Table delivers outstanding benefits to both patient and practice. Technologists can easily move the table to the patient rather than moving the patient to the table. This minimizes transfers for non-ambulatory and infirm patients.

The ultra-wide WIT mobile table measures 63cm, providing comfort, capacity, and safety for large patients, and simplified patient positioning. Feet first imaging for all exams and extra width promote patient compliance and alleviate anxiety.



A wide range of workflow and safety features including power elevation

WIT Monitor and Controls

Enables the operator to review and adjust patient information without leaving the patient's side. Wireless gating provides easy patient set-up allowing the operator to verify gating functions right at the gantry.

The operator can start, pause and restart scans while at the patient's side to improve workflow by decreasing patient anxiety.



Review and update patient information at the gantry and start and pause scans

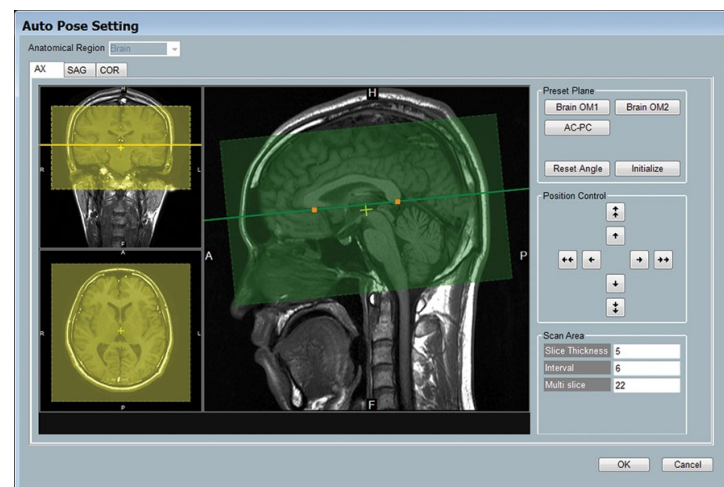
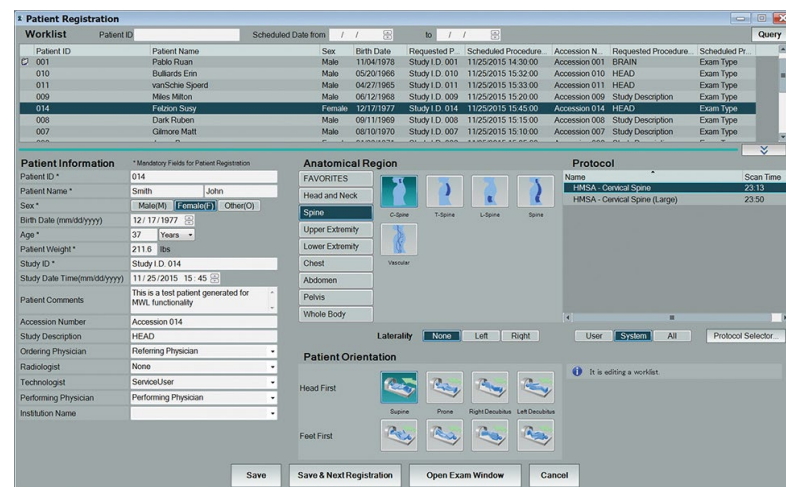
WIT Integrated RF Coil System

Hitachi's integrated coil technology improves all three elements of MR imaging: patient comfort, workflow and image quality. The integrated head, body/spine coils reside within the table, delivering quick setup and positioning in combination with lightweight anterior coil attachments.

Automatic Element Selection chooses optimum coil elements, which not only enhances workflow, but also consistently produces the best image quality.



Coils can be easily switched from head to feet first or removed for maximum patient space



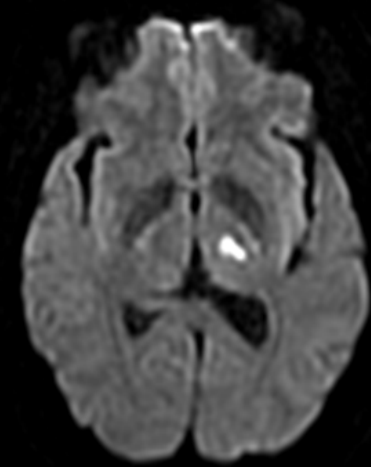
AutoPose saves time and provides consistent results

Simplified and fast patient registration

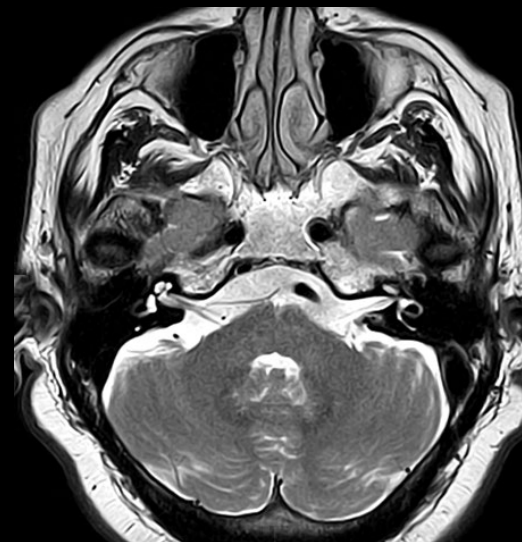
Neurological



3D T2 FLAIR isoFSE
1.2mm isotropic



DWI B1000 for acute stroke



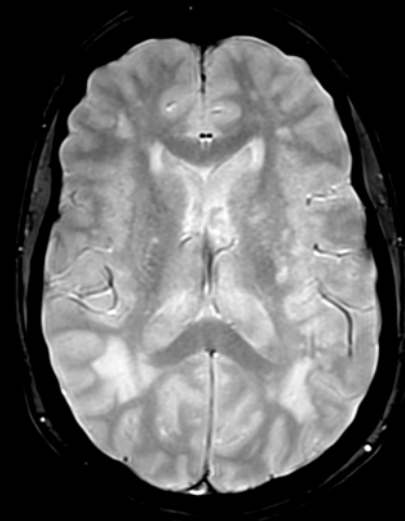
2D T2 opFSE (optimized FSE)
3mm slice thickness



opFIR with uniform fat suppression over
large FOV



T2 opFSE for enhanced edge detail and
sharpness



ADAGE combines gradient echoes for
enhanced gray/white matter contrast

Vascular



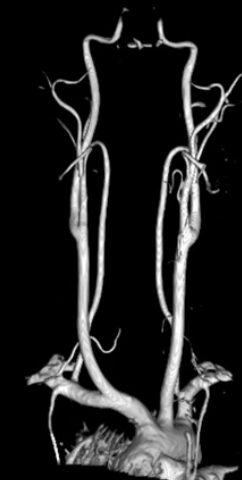
VASC-FSE 3 station non-contrast MRA



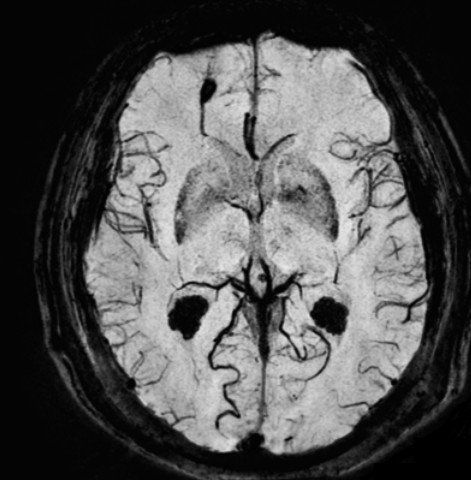
Flouro Triggered MRA (FLUTE)



3D Time-of-Flight (TOF)

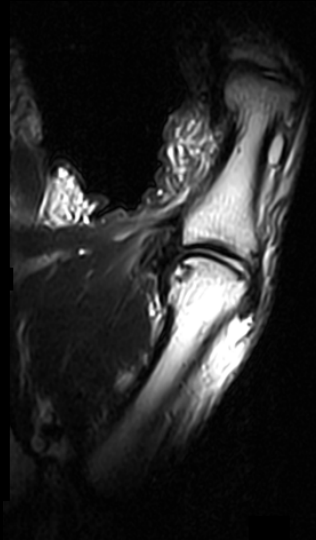


VASC-ASL volume rendered non-contrast
MRA



Blood Sensitive Imaging (BSI) T2*
contrast for micro bleed detection

Musculoskeletal



Micro coil provides exceptional small FOV, thin slice imaging



ADAGE high SNR/CNR with excellent cartilage depiction



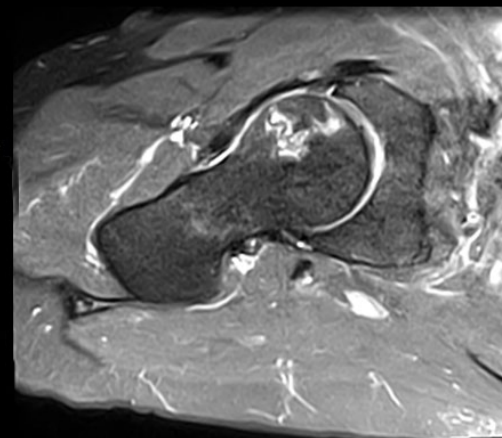
T2 isoFSE 1.2mm isotropic



3D RF Spoiled SARGE (RSSG) with Water Excitation

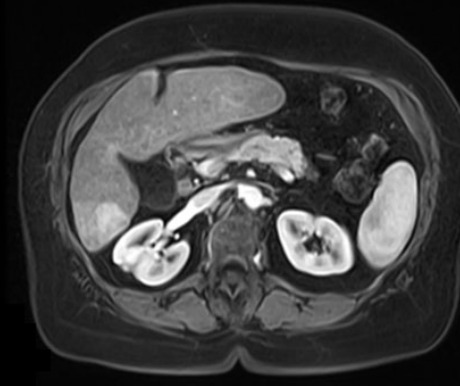


T1 opFSE with VIVID for fine edge detail

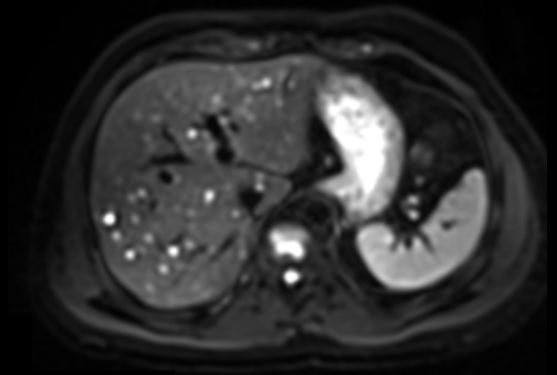


opFSE with HOAST for uniform off-center fat saturation

Body



TIGRE - T1 gradient echo dynamic arterial phase



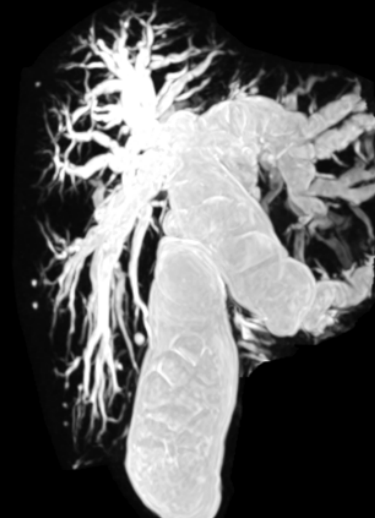
DWI B50 with high lesion conspicuity



Gradient Echo In-Phase



Gradient Echo Out-of-Phase

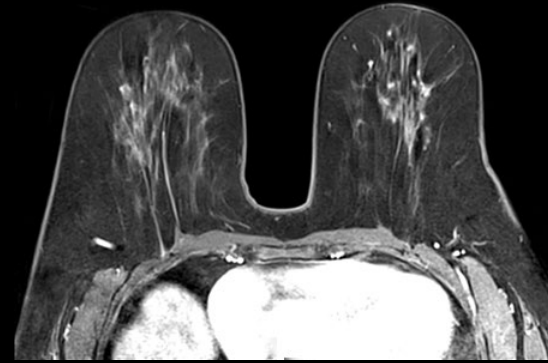


3D primeFSE with respiratory gating



2-Point FatSep RF Spoiled SARGE (RSSG)

Breast



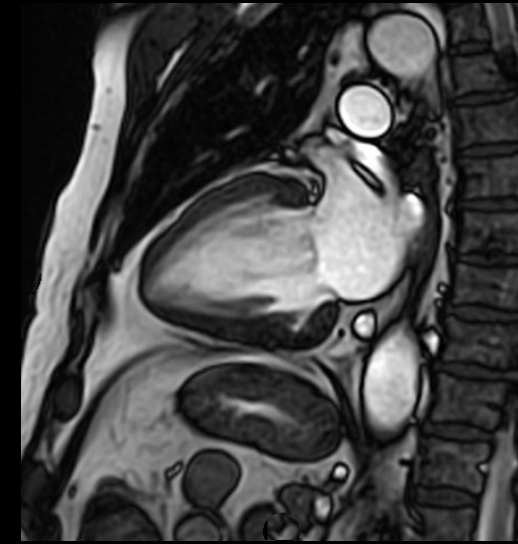
TIGRE Dynamic Axial

Prostate



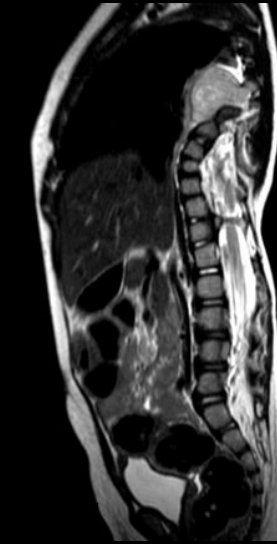
T2 opFSE - optimized FSE provides high SNR imaging

Cardiac

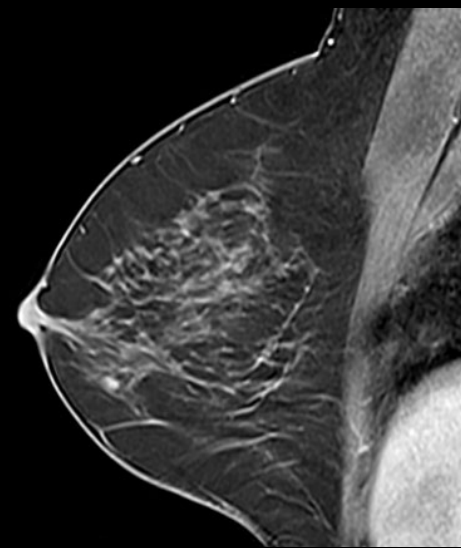


Balanced SARGE (BASG)
2 chamber view

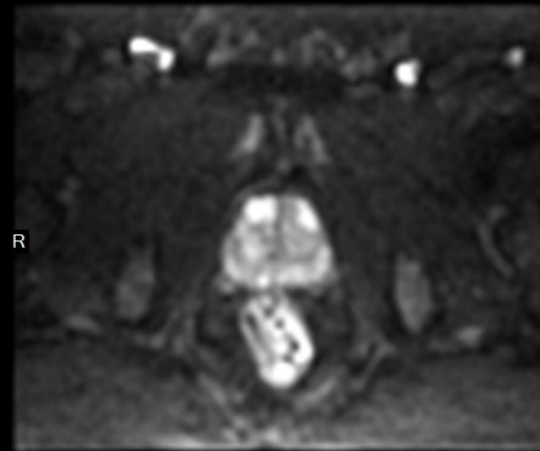
Pediatric



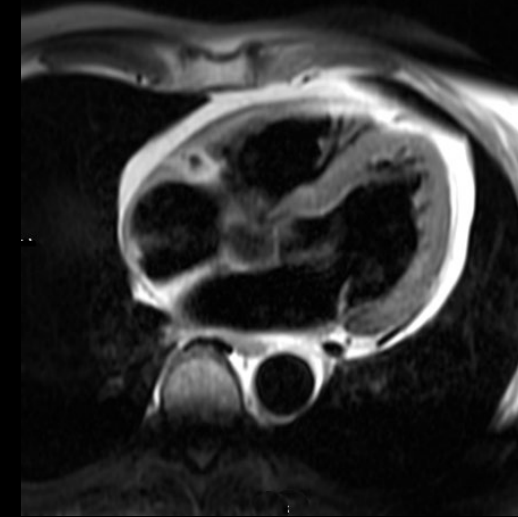
T2 opFSE
1 Year Old



TIGRE Dynamic Sagittal



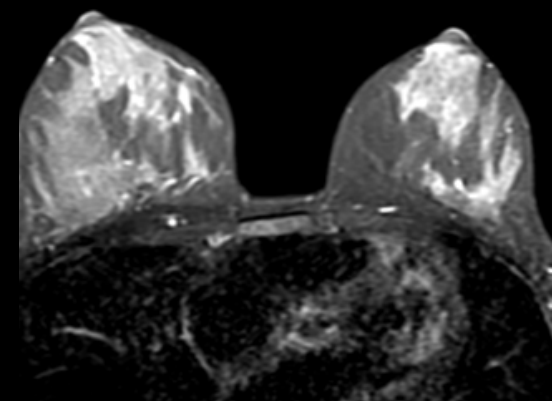
DWI B1000



Double Inversion Recovery for black blood



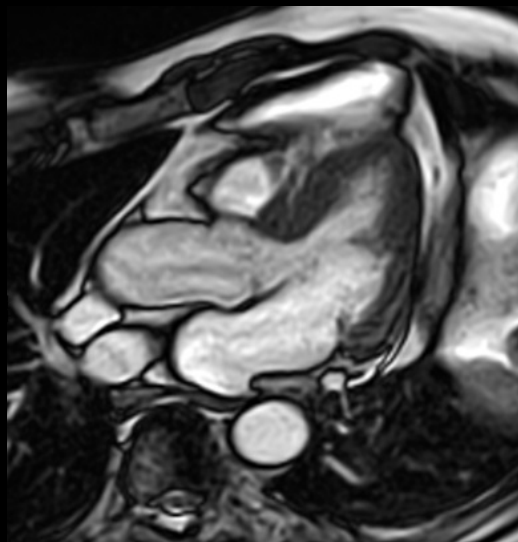
Fluro Triggered MRA (FLUTE)
5 Years Old



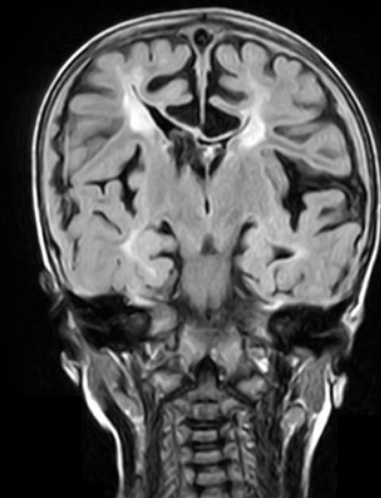
T2 opFSE with Fat Sat



RADAR T2 opFSE for motion compensation



BASG with Retrospective Gating
3 chamber view



Optimized FLAIR (opFIR)
3 Years Old

Industry Leading Support Services

Hitachi's support services provide unmatched benefits, while minimizing the total cost of ownership. As your preferred partner Hitachi provides valuable services prior to your purchase including market assessment and site planning support; and once you begin installation of your Hitachi product we provide you with application assistance and marketing support. Finally, after installation, you can expect unlimited applications, service, and marketing support for your equipment and your staff. All this is backed by the industry-leading 99% uptime guarantee.

Installation and Rigging

During installation and rigging, Hitachi will coordinate all activities as well as provide rigging assistance. We will work with you, your contractor, and architect to assure your final installation will meet all electrical and environmental requirements as well as go through a final construction and installation checklist.

Applications

Hitachi gives you a great deal of help and support with unlimited applications to ensure you get the most out of your MR, CT, and Ultrasound systems. Our training is thorough, yet concise; we also make sure your technologists keep current with the latest developments and enhancements.

Site accreditation

Hitachi Applications Specialists provides an independent review of your images prior to submission to help ensure basic image quality and adherence to parameter guidelines.

Remote Service

Sentinel remote monitoring monitors your system 24/7 detecting problems and automatically notifying Hitachi service for fast problem identification and resolution.

Marketing

The Hitachi Advanced Marketing Program provides our customers strategic level creative marketing design at no cost. Many hospitals and imaging centers have taken advantage of this industry-unique added-value. The Advanced Marketing Program provides strategic level creative marketing design unique to a facility's branding campaign.

We are also able to supply your marketing team with product photos, videos, and logos so you are able to create your own artwork.

For more information, please visit us at www.hitachihealthcare.com/CustomerSupport.

SOCIAL INNOVATION

Hitachi regards healthcare as being a crucial part of social infrastructure that will support society in the 21st century and is therefore made the healthcare business a key pillar of its Social Innovation Business. Hitachi combines its collective strengths with IT to provide innovative technologies and systems, solutions and services in the healthcare field. In doing so, Hitachi will respond with innovation to the challenges facing society.

We aim to create a happy society in which everyone can enjoy a secure and safe way of life. Driven by this objective, Hitachi has begun taking on new challenges with a view toward creating healthcare innovation throughout North America.

Innovating Healthcare, Embracing the Future



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