



The routine becomes outstanding

Philips Brilliance CT 64-channel

PHILIPS

Your demands are met

Brilliance CT 64-channel with Essence technology delivers value, dependability and performance proven to meet your demanding standards. We're committed to providing you with the solutions and services that will take you where you need to go in a rapidly evolving healthcare environment now and in the future.

Daily dependability starts with system design and continues on with the serviceability that helps you make the most of your system from day one. You can count on us for a full lifecycle solution designed around your patients, your people, and your organization to help you succeed in every phase of system ownership, from planning to start-up, through peak usage and renewal.

Today's CT systems are more sophisticated than ever, and so are the ways in which we create them. The Philips CT Essence tube, detector, and reconstruction technologies are excellent examples, offering higher dependability and stability along with superb image quality. Essence technology is designed to help you conduct advanced multi-slice CT studies, allowing for excellent levels of performance in neurovascular studies, coronary artery imaging, pulmonary imaging, and critical care. With Essence technology you can expect 74% of routine protocols to be reconstructed in less than 60 seconds.



“We are a certified stroke center and the Brilliance 64 has allowed us the ability to place a radiologist report in the hands of an ER physician in under 25 minutes on our average stroke protocol. This turnaround time adds vital life-changing minutes to the care of our stroke patients.”

*Chris Gilmer, BSRT R CT, Manager, CT/3-D Imaging Services
Greenville Hospital System, University Medical Center, Greenville, SC*

with Brilliance

Clearly different ClearRay reconstruction

Philips ClearRay reconstruction offers improvements in image quality, due to Philips proprietary technology to remove the effects of scatter.

Scatter computation is an extremely complex problem. In fact, using conventional methods, it would take 20 days to compute results. Eight years of development at Philips premier research center produced ClearRay collimation, which quickly adapts to each individual patient and scan geometry, minimizing the effects of scatter. With improved image quality, especially in large patients, this new technology enables further opportunity to lower dose.



Powerful X-ray tubes are designed to eliminate wait times, enable greater image fidelity, offer improved durability, and provide enhanced spatial resolution.



Innovative NanoPanel detectors with ultra-high signal-to-noise ratio enable fast and low-dose routine examinations, and are also suited to the large area-coverage demands of coronary artery imaging, lung scans, and brain perfusion studies.



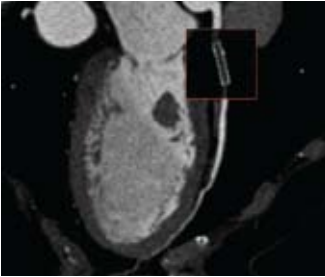
Intelligent RapidView reconstruction with 3D Cone Beam Reconstruction Algorithm (COBRA) offers virtually artifact-free images, while Adaptive Multicycle Reconstruction provides high temporal resolution through rate-responsive techniques to freeze patient motion.

The proof is in the images

DoseWise is a set of Philips principles and practices designed to ensure the best possible outcome while minimizing risk to patients and your staff through controlling radiation exposure, while maximizing diagnostic results.

Philips multislice CT scanners feature IntelliBeam filtration, which prevents unnecessary dose through the absorption of unwanted X-rays, while DoseRight automatically calculates the best system technique for each procedure to save time and preserve image quality. In addition, iDose is an iterative reconstruction technique that lowers dose while maintaining equivalent diagnostic image quality over a wide variety of CT applications.

Cardiac



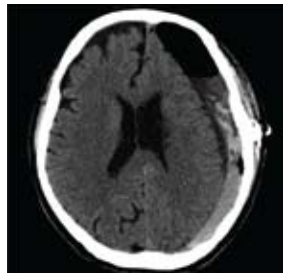
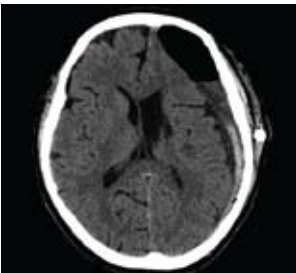
Challenge

Excessive radiation dose during cardiac imaging.

Solution

Step and Shoot Cardiac can enable radiation dose savings of up to 80% through an axial, prospective, ECG-gated scanning mode in which X-rays are turned on only during the physiologic phase of interest.

Neuro



Challenge

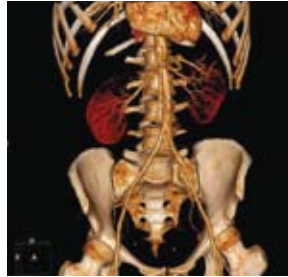
Detection of hemorrhages and small lesions can be very difficult near the skull-brain interface.

Solution

Brilliance 64-channel with Essence technology provides outstanding resolution and coverage for crisp, sharp images with excellent delineation between soft tissue and bone interfaces.

Images courtesy of NE Baptist Hospital

CTA



Challenge

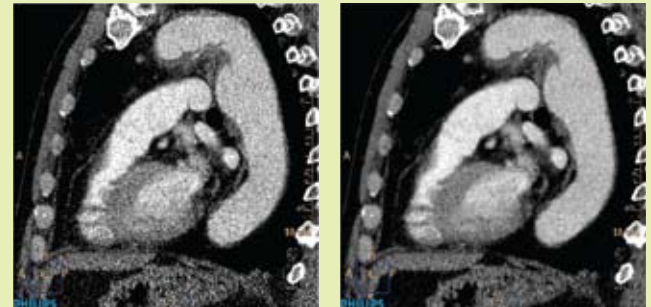
When contrast is injected into a vessel, the relative transparency between calcium in a vessel and bone is so similar that the difference between the two can be difficult to discern. Also, depending on a patient's anatomy, bones may obstruct the view of the vessels. Bone removal and centerline drawing is performed manually on most systems, which can be very time-consuming.

Solution

The Philips Advanced Vessel Analysis (AVA) software application now features whole-body bone removal, done automatically when using the Philips AVA package to perform CTA studies. In addition to removing the bone for clear visualization of vessels, it also enables users to make automatic centerlines for vessel analysis, which provides clinicians measurements of vessel occlusion and the size of an aneurysm.

Why iDose is ideal

Philips iDose enables up to an 80% reduction in dose while maintaining diagnostic image quality. Our goal is always enhanced image quality and reconstruction speeds to get you the views and information you need, quickly and efficiently.



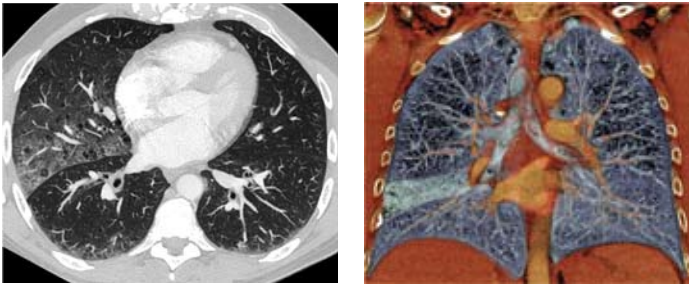
CTA of Chest Without iDose reconstruction

With iDose reconstruction

For iDose overcomes limitations (image noise) of conventional FBP (Filtered Back Projection) reconstruction.

Images courtesy of Asahikawa City Hospital

Pulmonary



Challenge

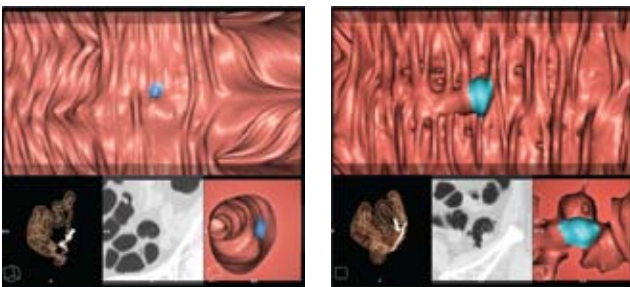
The lungs pose a unique challenge in CT: the air present in the lung parenchyma produces a higher signal-to-noise ratio. CT becomes even more challenging in patients with breathing problems because of difficulties complying with breath-hold imaging.

Solution

Powered by Essence technology, lung scans can be performed quickly, allowing a wider range of patients to be compliant and providing the high-quality 3D images to allow small structures to be visualized with fine detail.

Images courtesy of Fletcher Allen Health Care

Colonoscopy



Challenge

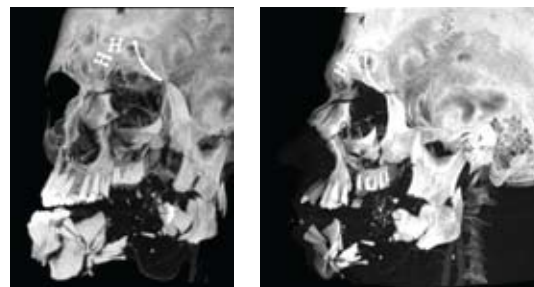
A recent presentation of virtual colonoscopy clinical trial data from the American College of Radiology Imaging Network (ACRIN) quoted read times of nearly 25 minutes.

Solution

The CT Virtual Colonoscopy package with perspective file view is exclusive to Philips. This 3D display tool displays a 420° view of the anatomy, allowing the clinician to see nearly 100% of the colon surface while viewing the dataset only once, helping to reduce interpretation time and improve accuracy. The solution also reduces virtual colonoscopy read times for physicians. A September 2007 article in the journal *Radiology* found that clinicians using the Perspective File View from Philips were able to read studies in just nine minutes.

Images courtesy of Diagnostico Maipu

Trauma



Challenge

Patients suffering from a traumatic episode need to be assessed quickly and comprehensively. The next step in their treatment often needs to be determined in a matter of minutes.

Solution

The Brilliance 64-channel offers isotropic detail quickly, making it ideal for a trauma setting. Unique tools such as the Brilliance Workspace Portal offer access to the patient's case to the surgeon or the specialist to begin immediate follow-up.

Images courtesy of University of Maryland Medical Center

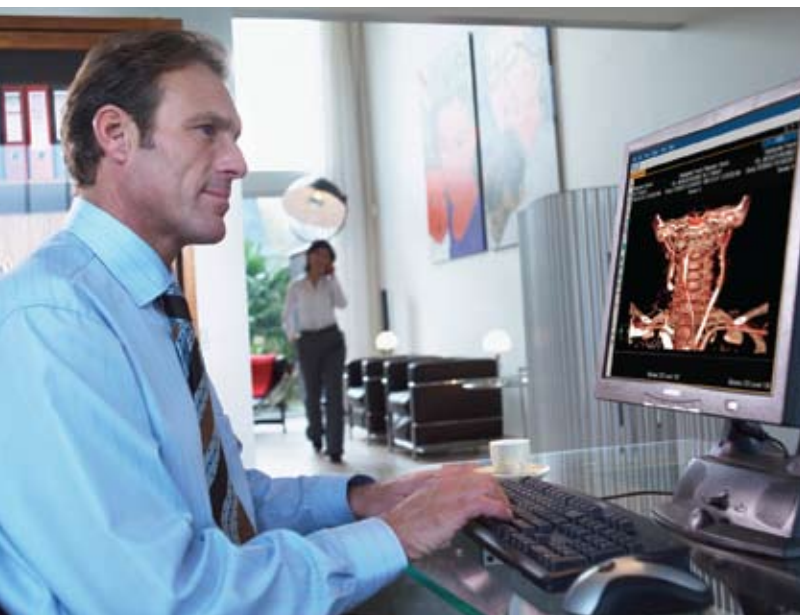
With you at every step

Philips has a continuous history of delivering upgrades and technology updates to help you gain the productivity you need through significant advances in technology, applications, and information-sharing to enable you to make the most of your system from the start.

Brilliance Everywhere

Work how and where you'd like with Brilliance Everywhere, which forms a seamless enterprise with PACS integration to move the data, not the caregiver, for excellent patient care from more places than ever before. Access the Brilliance Workspace Portal directly from common desktop or laptop computers.

During the regular day Portal can be made available to every computer in the hospital to access patient 3D imaging information in the office, surgery room, or ambulatory clinic. While attending offsite conferences, review current cases using a secure VPN connection to the hospital network.



For after-hour trauma patients, use Portal to view cases at home, allowing critical determinations without returning to the hospital.

Brilliance workspace #1

The Extended Brilliance Workspace was ranked #1 by KLAS* in its 2008 *Top 20 Best in KLAS awards: Software & Professional Services for Advanced Visualization*. KLAS, an independent research firm specializing in monitoring and reporting performance of healthcare information technology vendors, announced that the Philips Brilliance Workspace was the category leader in Advanced Visualization.

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“We probably save 45 minutes to an hour per study by having CT Portal, so that’s been huge. If a tool is significantly improving your manpower efficiency, that’s a no-brainer.”

*Jon Ekstrom, MD
Radiology Associates, Eugene, OR*



Philips provides a single source for your equipment, service, and financing needs, with flexible finance solutions designed to help you run a successful business.

Realize your full potential

Philips Utilization Services can help you provide enhanced patient care and workflow. By acquiring objective data about your system utilization, we can automatically provide you with a complete overview of how your system is used. This information is presented in easy-to-interpret reports that can be used to set direction for improvement actions to streamline workflow, increase patient throughput, reduce waiting lists, and maximize your return on investment.

Financing solutions

We offer flexible financing solutions to meet your needs from the start, and service you can count on for the life of your system. Philips gives you more with flexible service agreements and experienced, knowledgeable, and proven service engineers. Our global call center is available 24/7 and we have worldwide spare parts depots to keep you running efficiently.

Service that works for you

Philips worldwide Remote Services offers an advanced, virtual private network that links your Philips Healthcare equipment to our global remote services customer care centers. Utilization services help you realize greater potential from your system day after day.

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