

Case Study | Arihant Diagnostic Center



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The Varanasi-based Arihant Diagnostic Center experiences significant boost in productivity and enhanced patient convenience with the CARESTREAM DRX-Ascend System.

Backed by cutting-edge technology and an experienced team of radiologists and technicians, Arihant Diagnostic Center defines excellence in radiology and imaging. Committed to embracing the latest in radiology and imaging to enhance patient care, in May, 2011, The Center installed the CARESTREAM DRX-Ascend System – an advanced DR solution designed for small to mid-size hospital radiology departments and imaging centers. This system, manufactured in the U.S. under strict quality-control specifications, is FDA, AERB and CE- compliant. It consists of a state-of-the-art Deluxe Floor Mounted Tube Stand, a "Quiet-Lift" Elevating Float-Top Table, Vertical Wall Stand, Rotating Detector Tray, TechVision-enabled multi-color, touch-panel screen and a powerful generator.

Arihant Diagnostic Center became the first center in the country to install the CARESTREAM DRX-Ascend System. The objective? To cover the full spectrum of general and specialized imaging examinations. Because of the system's remarkable ease-of use, training of technicians required only two days. It was also very little time before the overall impact of the newly installed CARESTREAM DRX-Ascend System became very clear.

A Major Leap in Productivity

In a busy facility like Arihant Diagnostic Center, a prolonged waiting time for patients often resulted in crowded lobbies and chaotic conditions. Says Nirmal Jain, Director & Chief Radiologist, Arihant Diagnostic Center, "Prior to installing the CARESTREAM DRX-Ascend System, our technicians took no less than five minutes to conduct an X-Ray of a patient. With the CARESTREAM DRX-Ascend System, the imaging time has been reduced to two to three minutes." This reduced imaging time has enabled the center to conduct 50 % more examinations. "The productivity of our center has witnessed a major leap with the CARESTREAM DRX-Ascend System," adds Dr Jain, "It feels wonderful to see almost no queue in the lobby."

Waiting Time Reduced and Radiation Dosage Decreased

Our reduced imaging time has led not only to a decrease in patient waiting time and higher patient satisfaction, but also to specific clinical benefits. According to Dr. Jain, "The CARESTREAM DRX-Ascend System provides a very high degree of image quality. Moreover, the DRX Ascend System has reduced radiation dosage here by 40-50 %. These factors have combined to enhance our level of patient care."



Technicians Find it Convenient to Handle the Wireless and Light Weight DRX Detectors

X-Ray positioning flexibility was a crucial aspect that Dr Jain was seeking in the DR system. "Patients and technicians often face great degree of inconvenience due to limited machine flexibility in complex X-ray examinations. So, I was glad to learn that the CARESTREAM DRX-Ascend System came with DRX Detectors. These, I understand, are the world's first wireless, cassette-sized DR detectors. They provide great flexibility for free-position studies like cross-table lateral hips, knee-joint axial, cubital joint lateral, etc. The DRX detector has empowered our technicians with enhanced handling convenience and outstanding DR flexibility," concludes Dr Jain.

The DRX detector can be easily moved from the wall stand to the table for supine exams. "Because the DRX detectors are so portable, wireless and light in weight, our technicians find it convenient to handle them. This has also increased our staff's efficiency and optimized our overall workflow," says Dr Jain.



The DRX Detector Allows Doctors Immediate Diagnosis

The DRX detector has also enabled wireless transmission of digital images to the console for immediate image preview and manipulation. "The availability of image preview within five seconds and complete image within 20 seconds has reduced our patient examination time. This time-savings allows our doctors to offer immediate diagnosis, which is crucial for emergency patients," says Dr Jain.

Another aspect of the DRX detector that Dr Jain is enthused about is the battery charger that simultaneously recharges up to 3 DRX-detector system batteries to provide an uninterrupted work flow. "The DRX detector has helped us with better speed, superior image quality, enhanced productivity and improved patient satisfaction," sums up Dr Jain.

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Floor-mounted Design has Saved Space and Reduced Installation Costs

Many DR systems require a great deal of floor space—a costly situation that has been a major deterrent for radiology departments wishing to install DR. With the CARESTREAM DRX-Ascend System, the challenge of increased space and cost is overcome—this floor-mounted solution is specially designed for small to mid-sized imaging centers, orthopedic facilities, urgent care clinics and hospital radiology departments. As Dr. Jain explains, “The system’s floor-mounted design has saved 10% in floor space and has reduced installation costs significantly.”



Changing the Tube Stand is Fast and Easy

The versatile and flexible design of Deluxe Tube Stand of the CARESTREAM DRX-Ascend System has proved to be a major boon for Arihant Diagnostic Center, making imaging far more convenient. “Our technicians can effortlessly change the tube stand and set the hand grip position in multiple directions, because it’s so light-weight, smooth and easy to shift,” says Dr. Jain.

The Deluxe Tube Stand also allows unrestrained longitudinal and transverse travel, column rotation, tube angulations and trunnion rotation. The hand grip travels down easily and can go as low as 13 inches from the floor. Dr. Jain continues, “This enhanced mobility makes it easier for our technicians to conduct multiple, complex, out-of-bucky examinations such as weight-bearing, cross-table, axial, trans-lateral and off-table studies with speed and convenience.”



The Elevating Float-Top Table is a Boon for Large Patients

The CARESTREAM DRX-Ascend System comes with a wide “Quiet-Lift” Elevating Float-Top Table, which has a weight bearing capacity of 300 Kg. Its wide, flat base has allowed technicians at Arihant Diagnostic Center to place large patients on the table and position them comfortably. According to Dr. Jain, “Our technicians can lower and elevate this table to accommodate wheelchair and emergency patients conveniently. This feature offers effortless maneuverability and facilitates fast completion of examinations.”

Vertical Wall Stand Gives Extensive Vertical Radiographic Coverage

The Vertical Wall Stand of the CARESTREAM DRX-Ascend System is highly convenient for conducting standing operations at Arihant Diagnostic Center. The mobility of the vertical wall stand has increased technicians’ productivity and has resulted in better patient care.

Dr. Jain confirms this: “The Vertical Wall Stand has equipped our technicians with extensive vertical radiographic coverage of up to 13 inches from the ground. It can be used for several upright examinations including joint studies and knee deformity examinations of pediatric as well as adult patients.”

Technicians can Remain at the Patient’s Side, Enhancing Care

The innovative TechVision™ technology of the CARESTREAM DRX-Ascend System has enabled the technicians at Arihant Diagnostic Center to view DR exams, change generator techniques and preview images using a multi-color, touch-panel screen mounted on the tube stand. The touch panel screen fitted to the tube stand hand grip enhances technicians’ convenience.

“Its advanced display option allows our technicians to select the X-ray procedure parameters standing near the patient. From there, the technician can confirm that the image has been properly acquired or if repeat exam is needed; this has resulted in saved time and enhanced patient-care,” says Dr. Jain. Additionally, Tech Vision’s advanced display feature cuts down repeat rejects and radiation dosage.

Absolutely Indispensable for Our Facility

The CARESTREAM DRX-Ascend System is not the first Carestream Health product that Arihant Diagnostic Center has invested in. The center has been a pioneer in the city of Varanasi, having previously installed a Carestream Dental system (OPG Steplogram 800-C). “Now, says Dr. Jain, “we are excited to be the first facility in the country to install the CARESTREAM DRX-Ascend System. It has proven absolutely indispensable for our center, providing its easy maneuverability and numerous productivity-enhancing features. Moreover, it is also value-priced.”

Dr. Jain concludes: “We are happy to report that our center has greatly benefited from this cutting-edge DR system. Our experience with Carestream’s people, products and service has been very satisfactory.”