

# GENTLE IMAGING.

Big Innovations for Little Patients.



# A SPECIAL FOCUS ON PEDIATRIC IMAGING.

Pediatric radiography presents some unique concerns. Imaging systems designed for adults can expose children to radiation beyond what's needed for high-quality images – while kids are more vulnerable to radiation-induced cancers. And, young patients have a longer span of years ahead in which malignancies could develop.

In response, government agencies and organizations worldwide have issued guidelines to help imaging facilities develop dose-safety protocols. Complying with these guidelines – while still obtaining fast, high-quality images – presents a serious challenge. To meet it, you need a holistic, focused solution for pediatric imaging.



# ACHIEVING A HEALTHY BALANCE.

You always want the best diagnostic images possible at the lowest dose achievable, especially when the patient is a child.

That's why Carestream developed our pediatric x-ray solutions – integrated hardware and software tailored to the specific demands of pediatric imaging. These solutions deliver all the efficiency and quality you require, while helping you meet the recommendations of government agencies, the Image Gently Alliance for Radiation Safety in Pediatric Imaging, and the radiation safety principles of As Low As Reasonably Achievable (ALARA).

# CONFIDENCE AT EVERY STEP.

Our solutions contribute to the optimal pediatric imaging outcome at every stage of the imaging chain – Image Acquisition, Image Processing and Image Review.

## Image Acquisition

**Flexible** - Carestream pediatric imaging solutions give you the ability to perform each exam according to the individual patient characteristics. Take our DRX 2530C Detector. Custom-engineered and approved for pediatric applications, its smaller format size fits easily into a neonatal incubator x-ray tray, and its cesium iodide (CsI) scintillator is excellent for dose-sensitive pediatric patients.

Exposure parameters are automatically adjusted for each patient based on seven age/weight categories from very low birth weight to adolescent. Exposure time is automatically determined to use the shortest exposure possible for effective results.

**Fast** - The shorter the exam time, the less stress on young patients. Our lightweight and wireless detectors facilitate rapid positioning and easy handling. Overall acquisition time is reduced to a minimum and more personal attention can be dedicated to each child.

**Friendly** - The Carestream imaging rooms have been designed to accommodate the smallest of patients. The DRX-Evolution and DRX-Ascend DR suites have removable grids and low absorption tables and wallstand Bucky covers for the lowest possible dose. Filter wheels in the tube head provide additional x-ray filtration for dose sensitive patients. Carestream CR and DR long length imaging options provide digital imaging capabilities for scoliosis exams. These solutions are also designed to offer a bit of fun to the little ones. Customized DRX-Revolution child-friendly graphics help put pediatric patients at ease during portable x-ray procedures.



## Image Processing

Once a high-quality image has been acquired at the lowest possible exposure, it is essential to perform image processing that presents the diagnostic information clearly to the radiologist. Carestream's proprietary Pediatric Image Optimization and Enhancement Software is designed with small patients in mind. Like our acquisition process, it automatically adjusts and tailors the Carestream EVP Plus image-processing parameters for any one of the seven pediatric body-size categories. Improved noise suppression and detail enhancement helps provide optimal image quality to the radiologist.



## Image Review

Carestream's image-review capabilities allow you to measure and compare exposure and other key parameters for each exam performed. These features can be used as part of a facilities quality program for education and continuous improvement:

- **IEC Exposure Index** allows fast assessment of the amount of radiation used in the exam.
- **Deviation Index** immediately compares the exposure used to your facility's specific target goal.
- **Dose Reporting** sends data on total dose back to the RIS, including rejects.
- **CR/DR Total Quality Tool** uses a quality control phantom and software to assure your detector and cassettes are within specifications – in accordance with the standards of Image Gently and government guidelines for pediatric imaging.
- **Administrative Analysis & Reporting Software** queries all Carestream systems in the facility, and reports exposure levels per exam and per tech, repeat rates, repeat reasons, techniques used, and more.

## Industry-Leading Performance: Meet Our Family of DRX Detectors.

Our portfolio of DR detectors includes wireless, shareable and fixed models to meet your demands based on exam type, detector size, dosage level, and budget. Discover the right detector for your needs at [carestream.com/detectors](http://carestream.com/detectors)



WE'RE  
COMMITTED  
TO SAFE  
PEDIATRIC  
IMAGING –  
NOW AND IN  
THE FUTURE.



#### Dedicated to Ongoing Research.

Carestream continues to conduct research leading to innovative product development and pediatric solutions built on the principals of Image Gently and ALARA. We are committed to designing products with the needs of the pediatric patient in mind.



#### A Community of Service and Support.

Benefit from all the advantages of our Customer Success Network. We work continuously to improve your imaging performance, help you to innovate as needs change, and make the most your budget and resources. Carestream's Customer Success Network surrounds you with a dynamic team of experts, with a Single Point of Entry for easy, customized access to the right people in every situation. You and your patients will benefit from the expertise and best practices only Carestream can deliver – based on thousands of customer engagements worldwide and our 100-year heritage in medical-imaging innovation.



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