

Case Study: Le Bonheur Children's Hospital

Reliability of Toshiba's RADREX-i Digital X-ray System Makes Pediatric Imaging Faster and Safer

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Situation:

Le Bonheur Children's Hospital was opening a new facility and required digital X-ray systems for its emergency and radiology departments to conduct a variety of exams, while also making imaging faster and safer for pediatric patients.

Solution:

Following several successful years utilizing the Toshiba RADREX™-i digital radiographic (DR) X-ray system, Le Bonheur selected two new RADREX-i systems for its new facility. The reliable RADREX-i's user-friendly, automated features and RexView have decreased exam times, improved patient throughput and made exams safer for patients.

Benefits:

- **Reliability You Can Count On:** RADREX-i is a dependable digital X-ray system with reliable uptime busy facilities can trust.
- **Real-Time Image Display Creates Faster, Safer Exams:** RexView, a color LCD screen on the overhead tube crane (OTC), displays real-time images so technologists can review them more easily for faster decisions.

- **Standing Exams Easier for Patients:** RADREX-i's design includes a chest stand that allows staff to exam patients standing up, enhancing efficiency.
- **Automated Features for Rapid, Accurate Exams:** RADREX-i's automated features expedite exams and productivity to improve workflow and reduce exam time for patients.



Le Bonheur
Methodist Healthcare
Family Children's Hospital

Le Bonheur Children's Hospital, a 255-bed hospital in Memphis, Tennessee, required proven digital X-ray equipment to perform a range of exams in the emergency and radiology departments at its new facility.

"As a high-volume pediatric hospital, we needed an X-ray system that we could count on to enhance patient comfort and improve departmental efficiency," said Bunny Willis, manager of diagnostic radiology, Le Bonheur Children's Hospital, which treats more than 200,000 patients a year. "Our first Toshiba RADREX-i has been so reliable that we selected two more RADREX-i systems."

Toshiba's RADREX™-i digital X-ray system is designed to improve workflow, making pediatric imaging safer and more comfortable. RexView, a color LCD screen on the overhead tube crane (OTC), displays real-time images so technologists can view images immediately for faster decisions during the exam process. RADREX-i's ability to display images tableside enhances efficiency and patient safety by allowing technologists to spend more time in the exam room at the patient's side.

"Some children have difficulty staying still during exams, but the RADREX-i is equipped with a wall stand that has an angulating flat panel detector to facilitate a variety of exam positions," added Willis. "Le Bonheur uses this feature for some pediatric patients, who feel safer and more comfortable standing during exams. Additionally, the RADREX-i's automated features and wall stand-mounted controls help streamline workflow and accelerate throughput, providing a tremendous benefit to anxious children when time is limited."

Toshiba's automated features include:

- **Auto-tracking**, which eliminates manually positioning the X-ray tube detector by providing synchronization for table and wall-stand tracking.
- **Auto-program**, which automatically selects the correct program.

- **Auto-center stop**, which provides visual guidance for fast, simple detector centering.
- **Auto-collimation**, which automatically selects the correct collimation size for the patient's body part to save time and limit radiation exposure to the patient.

We've found Toshiba's RADREX-i to be a dependable digital X-ray system that allows us to perform a wide range of exams while making it safe and comfortable for our pediatric patient population.

— Bunny Willis, manager of diagnostic radiology,
Le Bonheur Children's Hospital

Beyond reducing exam time and advancing workflow, the RADREX-i's automated tools can help improve accuracy, resulting in fewer exam retakes by capturing the right image on the first try. Not only does this help reduce the potential for retake exams, features like auto-collimation help limit radiation exposure for the patient. Overall, RADREX-i's automated features provide hospitals with the right tools to help manage radiation dose, which is a concern for all patients, but especially children, since they can be more sensitive to radiation.

"We've found Toshiba's RADREX-i to be a dependable digital X-ray system that allows us to perform a wide range of exams while making it safe and comfortable for our pediatric patient population," added Willis. "We've also had great experiences with Toshiba Service, which proactively monitors and addresses small concerns before they turn into major issues."

Today, with three systems, Le Bonheur has found Toshiba's RADREX-i to be a reliable, easy-to-use digital X-ray system to accommodate a wide range of patients, making it an ideal, cost-effective system for pediatric imaging. In addition to the RADREX-i, Le Bonheur conducts 90 percent of its exams with Toshiba imaging solutions, including four Kalare™ X-ray systems, an Aquilion™ ONE CT system and two Infinix™-i bi-plane vascular X-ray systems.



Le Bonheur Children's Hospital, a high-volume pediatric hospital, installed two new RADREX-i DR X-ray systems to decrease exam times, improve patient throughput and make exams safer for patients.



Bunny Willis, manager of diagnostic radiology, uses RADREX-i's RexView, a color LCD screen on the overhead tube crane (OTC), to review real-time images for faster decisions.



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