Le Bonheur Children’s Hospital is one of only a few children’s hospitals in the nation to use the low-dose EOS X-ray technology. With EOS, our pediatric specialists are able to capture head-to-toe images of children and adolescents in a standing, weight-bearing position.

The technology provides images produced using the lowest possible dose of radiation. The EOS X-ray imaging technology also allows our physicians the ability to study the spine in three dimensions, while reducing radiation exposure.

The EOS gives our pediatric specialists a complete view of the spine, lower limbs and joints which enables them to more accurately assess any skeletal problems and develop a treatment plan that best meets the needs of the patient and their family.
Frequently Asked Questions

Q: How can my child get an X-ray using the EOS machine?
A: You will need to have a referral and order from your child's physician. The order must include a diagnosis and be written as follows: XR scoliosis PA & lateral-erect.

Q: If my child is scheduled for an X-ray at Le Bonheur Children's Hospital, can I request that the X-ray be taken using the EOS machine?
A: Yes, you may request EOS X-ray technology for your child and we will use the EOS machine whenever appropriate.

Q: Is the EOS X-ray imaging machine safer than standard X-ray machines?
A: Yes, the EOS technology is safer because it uses the least amount of radiation possible to produce the highest quality images. This difference is most relevant for children who require multiple X-rays to monitor their condition over time because the dose of radiation accumulates over time. Whenever a child is X-rayed, we follow the ALARA imaging standard: As Low As Reasonably Possible.

Q: How old does a child have to be to get an X-ray using the EOS machine?
A: A child needs to be able to follow directions and stand completely still, by themselves, in the EOS machine for up to 20 seconds.

Q: Will my child be wearing a lead shield for the X-ray?
A: No. The lead shield blocks areas of the body that the physician needs to see in order to make an accurate diagnosis.

Q: How long does it take to get an X-ray using the EOS machine?
A: The imaging takes approximately 20 seconds.

Q: How many X-rays will be taken of my child's spine?
A: The number of X-rays taken depends on the physician request. Additional X-rays may be taken at follow-up visits to monitor progress.

Q: Is there an additional charge for an EOS X-ray?
A: No. The charge is the same as it would be for a standard X-ray.

Q: Will my insurance cover the cost of an EOS X-ray?
A: If your insurance covers outpatient X-rays, it should cover an X-ray on the EOS machine. To be certain of coverage, contact your insurance company.

Q: Where can I find more information about EOS?
A: Go to lebonheur.org/eos/