

# EOS X-ray Technology

**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/](http://lebonheur.org/eos/)*