

## EOS Studies

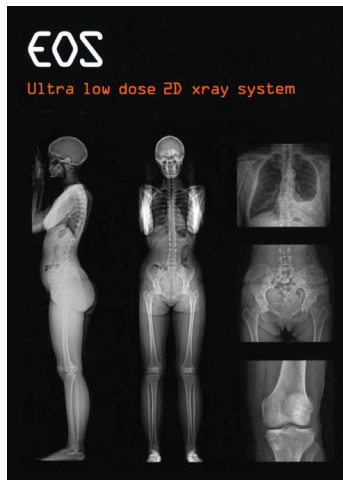


EOS is a 2D X-ray imaging device that combines a Nobel Prize winning particle detector and an advanced linear scanning technique. The system captures 2 full-body images (frontal and lateral [side]) of your skeleton while you are in a standing position. When appropriate, the system

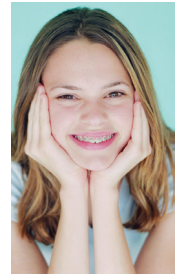
also has the capability of scanning a specific anatomical region (<http://www.eos-imaging.com>). EOS involves up to 10 times less radiation than conventional X-ray without compromising image quality.

SterEOS is a workstation that, using the 2 full-body X-ray images, creates a 3D model of your skeleton. Over 100 clinically relevant angle and length measurements are automatically calculated.

This data can then be obtained by medical specialties, such as orthopaedics, to make clinical decisions and plan personalized treatments for your condition (<http://www.eos-imaging.com>)).



The **pediatric population** benefits greatly from having an EOS study due to its usefulness in the diagnosis and treatment of scoliosis. Research shows that spinal alignment is impacted by pelvic and lower limb position, and full body imaging enables physicians to consider the alignment of the entire musculoskeletal system for a more accurate diagnosis and better surgical planning. The low dose of radiation in EOS is ideal for pediatric patients who are imaged frequently to monitor disease progression. Research shows that the effective dose of EOS imaging was 7 times lower than that of full-field digital x-ray for scoliosis follow-ups.



**Those of all ages** who need hip, knee and other lower limb surgeries will also be benefited by this type of study. Planning involves careful assessment of musculoskeletal alignment; if the orientation of the joint prosthesis is off even slightly, there could be a greater risk of complications such as implant failure. Research shows that 3D modeling with the EOS system can provide more accurate readings of several key measurements used to evaluate lower limb alignment such as tibial (shin bone) and femoral (thigh bone) length, and lateral knee angulations.



### EOS studies are available at Clinton Crossings Medical Center

4901 Lac de Ville Boulevard, Building D, 2nd Floor, Rochester, NY 14618

Monday-Friday: 8:00am- 4:30pm - No appointments necessary

All patients are required to bring their requisition (order) from their referring physician.

Pediatric patients register in Suite 240

Adult patients (19+ years) register in Suite 220



yoUR imaging. yoUR location. yoUR Radiologist.