spineEOS

Add a 3rd dimension to your surgical planning

EOS imaging

CONNECTING IMAGING TO CARE

EOSapps

Software for surgical planning has been available for some time now, but there are limitations associated with 2D imaging and concerns about CT radiation dose for 3D. EOS imaging has now expanded beyond a low dose imaging system to provide additional solutions for each step of the patient care pathway including 3D surgical planning.

EOSapps are online, 3D surgical planning solutions* based on unbiased, weight-bearing EOS images. Now, with a traditional low dose EOS exam, you are able to reconstruct your patient's anatomy in 3D and use the accurate 2D/3D data to select and position implants.

By planning your procedure in 3D, you are able to take into account important clinical parameters such as torsion and rotation which are not available with 2D planning. EOSapps enable surgeons to make better informed clinical decisions and enter the operating room with more confidence.

WORKFLOW

spineEOS

Due to the complex nature of the spine, surgeries may be particularly difficult and call for careful preparation for better outcomes.

The spineEOS online software provides a 3D visualization of the patient's spine in its current state as well as a literature-based, optimal correction of their anatomy in 3D. The correction can be modified by the surgeon including simulating osteotomies, selecting and positioning cages and accurately planning the length, width and shape of the spinal rods in 3D. All key clinical parameters are displayed in real time to efficiently determine the best surgical strategy. Thanks to the full body, weight-bearing 2D/3D EOS images, spineEOS displays the anticipated spine after correction and a restoration of a deformative or degenerative spine patient's global balance pre-operatively.

BENEFITS

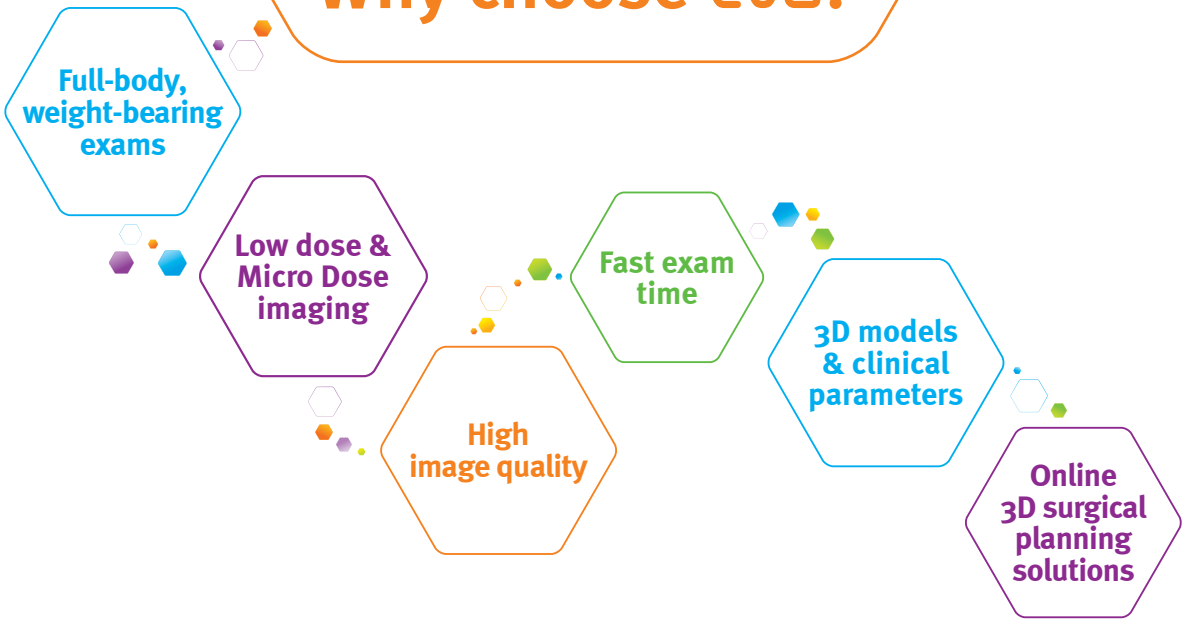
Improved clinical outcomes

- Immediate visualization of 3D frontal and sagittal alignment planning based on different adult and pediatric reference values, including pelvis and knee compensatory mechanisms
- Real-time 3D simulation of osteotomies and generic intersomatic cage positioning
- Optimization of the surgical strategy by analyzing the automatically calculated, post-operative 3D parameters (Cobb angles, lordosis/kyphosis, SVA)
- 3D visualization of the rod shape, diameter and length

Facility-wide efficiency

- Improved understanding of the surgical plan and patient's anatomy for more efficiency in the OR
- Selection and pre-bending of rods based on 3D planning
- Online access from any computer through a compliant server
- Customizable, patient-specific planning reports

Why choose EOS?



About EOS imaging

EOS imaging is a med-tech company based in Paris, France that designs, develops and markets EOS, an innovative medical imaging system dedicated to orthopaedics and osteoarticular pathologies. A low dose or Micro Dose EOS exam provides full body, stereo-radiographic images in weight-bearing positions. The frontal and lateral images are acquired simultaneously in less than 20 seconds without magnification.

The accompanying sterEOS workstation enables you to create patient-specific 3D models, calculate over 100 clinical parameters automatically and generate customizable patient reports. EOS imaging also offers online 3DServices and EOSapps* cloud-based, 3D surgical planning software solutions. The EOS platform adds value throughout the patient care pathway and truly connects imaging to care.

1. *Comparison of radiation dose, workflow, patient comfort and financial break-even of standard digital radiography and a novel biplanar low-dose X-ray system for upright full-length lower limb and whole spine radiography. Dietrich TJ et al. Skeletal Radiol. 2013*
2. *Diagnostic imaging of spinal deformities: reducing patients radiation dose with a new slot-scanning X-ray imager. Deschenes S et al.Spine (Phila Pa 1976)2010 Apr 20;35(9):989-94*

Please read carefully the labeling provided with the device.
Caution: US Federal law restricts this device to sale by or on the order of a physician.
*Check with your local EOS imaging representative for availability in your region.
Manufacturer: oneFIT medical

EOS imaging SA | 10 rue Mercoeur | 75011 Paris France | +33 (0) 155 25 60 60
EOS imaging, Inc. | 185 Alewife Brook Parkway #205 | Cambridge, MA 02138 USA | +1 (678) 564 5400

www.eos-imaging.com

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