



CONNECTING IMAGING TO CARE



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.



knee EOS

Due to our aging population, the number of Total Knee Arthroplasties (TKA) keeps increasing. Despite significant efforts, progress is still needed to improve the surgical outcome as 20% of patients are unsatisfied with their results¹.

The kneeEOS online software is used to plan a primary, total knee arthroplasty by automatically selecting and positioning implants in 3D. The surgeon can modify the plan with immediate feedback on how changes to the plan affect relevant clinical parameters in 3D. Thanks to the full body, weight-bearing 3D EOS images, kneeEOS can be used to anticipate the consequences of the prosthesis placement on leg alignment and knee rotation; two key criteria for successful total knee arthroplasties.



BENEFITS

Improved clinical outcomes

- Patient-matched implant size selection without complex radiological calibration protocols
- Unique 3D planning for implant positioning, including the resection levels on the femur and the tibia, without the need for additional CT exams²
- Real-time 3D surgical simulations of the impact on leg alignment (HKA) and knee rotations (varus/valgus, flexion/extension, internal/external rotation) in a functional position

Facility-wide efficiency

- Automatic proposal of implant size and position according to the 2D/3D patient data set
- Online database of 3D implants from multiple manufacturers
- Online access from any computer through a compliant server
- Customizable patient-specific planning reports





EOS imaging is a med-tech company based in Paris, France that designs, develops and markets EOS, an innovative medical imaging system dedicated to orthopedics 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.«What proportion of patients report long-term pain after total hip or knee replacement for osteoarthritis? A systematic review of prospective studies in unselected patients.» Beswick, A. D., V. Wylde, R. Gooberman-Hill, A. Blom and P. Dieppe (2012). BMJ Open.

2. Ionizing radiation doses during lower limb torsion and anteversion measurements by EOS stereoradiography and computed tomography. Delin C et al. Eur J Radiol. 2013

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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