SIEMENS Healthineers

Press

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Cios Spin mobile C-arm from Siemens Healthineers for intra-operative 3D imaging during demanding procedures

- **Conventional 2D imaging reaches its limits with demanding procedures like complicated foot fractures or spinal fusion**
- **Cios Spin assists orthopedic and trauma surgeons by providing quality control using intraoperative 3D images**
- **The need for revision surgery, for example caused by incorrectly placed implants or bone fragments, could be reduced using Cios Spin**

Demanding interventions are part of the normal routine for orthopedic and trauma surgeons. But conventional 2D imaging can make it difficult to get minimally invasive surgery right the first time. Often, only post-operative computed tomography will reveal that an implant or bone fragment is not in exactly the right place – a finding that can lead to revision surgery. To enable surgeons to work with greater precision and achieve the best possible treatment results, Siemens Healthineers introduces Cios Spin, a mobile flat detector C-arm, at the German Congress for Orthopedics and Trauma Surgery (DKOU) in Berlin on October 24-27, 2017.

Intra-operative 3D imaging provides anatomically precise views of the target bone or implant that can be rotated on-screen in any direction using a mouse. If, for example, screws need to be repositioned, the surgeons can see this while the operation is still in progress and can make the adjustments directly. “We are proud of Cios Spin, a mobile 3D C-arm that illustrates our know-how in mobile X-ray imaging,” explains Peter Seitz, Head of Surgery at Siemens Healthineers. “Cios Spin will do even more to help our customers improve the quality of their patient care in the future using precision medicine, as well as reducing the additional costs imposed by revision surgery.”

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Cios Spin is equipped with state-of-the-art flat panel detector technology, and also comes with a range of software packages like the “Easy 3D package,” which ensures the efficient integration of 3D imaging into the surgical workflow. When performing a system collision check before the scan, the software guides the user through the individual steps, and all the required information is displayed on-screen. Collision checks right before the scan are necessary to avoid collisions of the system with the OR-table or other clinical devices during the actual scan. Surgical interventions may often require the use of ten or more screws, all of which must be localized in the 3D dataset before the surgeon can assess them. “Screw Scout” enables Cios Spin software to recognize the screws in the 3D X-ray image automatically and labels their position, saving time and effort for the surgeon.

The high generator power of Cios Spin deals with the challenge of X-raying more solid parts of the body like the hip, or the more dense tissue in obese patients, to enable precise clinical evaluation of the images. To make this happen, Cios Spin has a power rating of 25 kilowatts, and is able to deliver very good quality 3D X-ray images even in these situations. Moreover Cios Spin is the first mobile C-arm on the market that comes with an antimicrobial coating to prevent bacteria from multiplying on the system. Also forming part of the comprehensive concept for infection control of Cios Spin is a cleaning guide that allows the quality of cleaning to be reviewed using specific markers.

The product is still under development and not commercially available yet. Its future availability cannot be ensured.

This press release and press pictures are available at
www.siemens.com/press/PR2017100037HCEN.

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