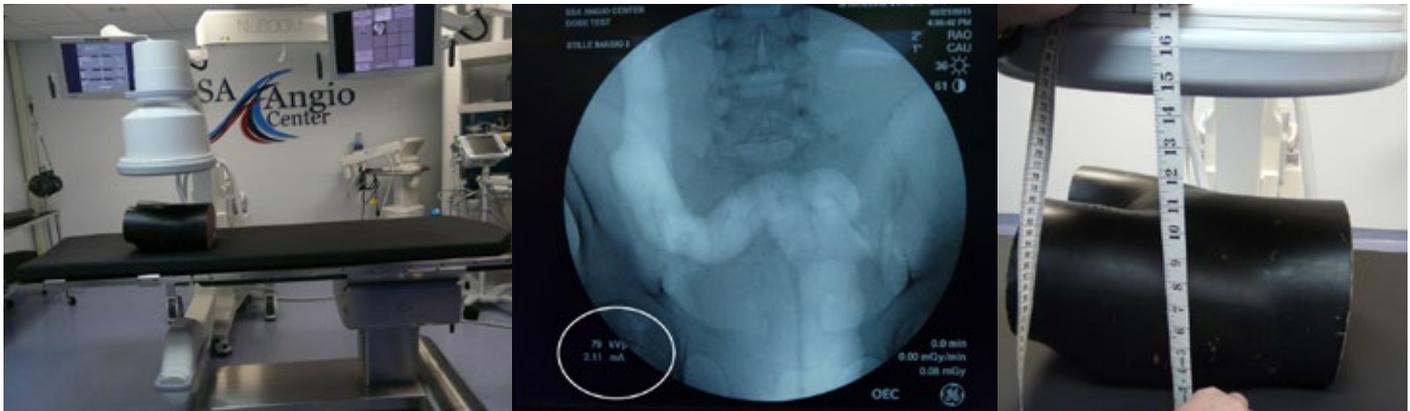


The new Stille imagiQ2 surgical C-arm table represents an important advance in developing the low-dose technology field.



Shoreline Surgical Associates, Middletown, CT. USA. Stille imagiQ2 surgical table reduces C-arm radiation exposure with 20% relative to imagiQ. Dose comparison, March 2013.

Avoiding unnecessary radiation

As the frequency of image guided/interventional procedures continues to grow, so does the need for low-dose radiation technology.

Radiation exposure continues to be a major concern among the clinical staff and patient community. Based on the international Basic Standard Safety (BSS) regulations there are components of these ORs that can limit radiation exposure's harmful risks. The industry continues to research and develop technology to address these concerns.

The exceptionally low attenuation (0.4 mm Al) carbon fiber table top of the imagiQ2 and its True Free Float® technology allows for faster, smoother and more accurate movements. These features help save time in the OR and minimize the need for C-arm adjustments that could contribute to overheating, without compromising image quality.

Several observations have been made regarding the latest advancements in Stille's commitment to radiation safety.

Stille imagQ2 surgical table reduces C-arm radiation exposure up to 20% relative to Stille first generation imagiQ¹

In a recent study performed in Middletown CT, USA in March 2013, the radiation exposure of the new Stille imagiQ2 and the first generation imagiQ, were compared.

An abdominal phantom and the GE OEC 9900 mobile C-arm unit were used to measure radiation exposure under standard fluoroscopy at 80 kVp and 2.2 mA. The image intensifier was placed 15 inches from each table top.

The C-arm unit recorded a radiation exposure doses of 0.10 mGy for imagiQ and 0.08 mGy for imagiQ2.

"As compared to published mean dose rates in EVAR procedures, a 20% reduction in radiation exposure can be equivalent to more than 5 mSv of reduced mean effective dose. To put into perspective, this reduction equals the radiation exposure affecting the body from more than 250 conventional chest X-ray procedures.

The comparative study showed that the Stille imagiQ2 surgical table top required 20% lower radiation exposure than its predecessor Stille imagiQ at standard fluoroscopy settings.

We observed that the new Stille imagiQ2 surgical table helps reducing harmful radiation exposure and can be a key contributor of keeping dose rates ALARA".¹

“The Stille imagiQ table is a key element of our success”

Thomas Larzon MD, PhD



“As a result of the reduced need of C-arm adjustments, this table can be operated with less personnel, resulting in a cost saving element.” Joseph Coatti, MD, Senior Managing partner, Shoreline Surgical Associates, CT, USA.



“We have been using the Stille imagiQ for the last 10 years and it is a key element of our success.” Thomas Larzon MD, PhD, Örebro University Hospital, Sweden

Shorter procedures, cost saving solution

In a personal interview with Dr. Joseph Coatti MD, Senior Manager at Shoreline Surgical Associates, Middletown, CT, USA, he remarked some of the benefits of investing in a high-end angiographic table like the imagiQ2:

- Reduction of radiation exposure to patient and medical staff.
- Minimization of C-arm adjustments.
- Excellent imaging with lower radiation dose.
- Smooth and quick table maneuvering.

“As a result of the reduced need of C-arm adjustments, this table can be operated with less personnel, resulting in a cost saving element”. “The beauty of the table is how fluent the motions are”, comments Dr. Coatti².

Achieving endovascular success

In an interview conducted in conjunction with the Charing Cross CX meeting in April 2013, Thomas Larzon, head of the Vascular Surgery, Department of Cardio-Thoracic and Vascular Surgery, Örebro University Hospital, Örebro, Sweden, discussed his experience with the Stille imagiQ table.

Dr. Larzon described the importance, among other things, of the surgical table top and specifically the key elements that helped in procedural success.

“The robustness of its table top with its high translucency enhances our C-arm performance and saves using fluoroscopy as much. The True Free Float from Stille is also a big key element; here I can pan the table smoothly with real precision. Tilting the table without losing image focus helps me save repositioning the C-arm avoiding unnecessary scattered radiation.”

“We have found a good compromise between stability and dose reduction. Dose has gained more and more importance for vascular surgery”.³

All features, such as translucency, True Free Float and iso-roll along with a mobile Hybrid OR, can help to minimize procedural time, therefore reducing patient and medical staff radiation exposure.

1 Shoreline Surgical Associates, Middletown, CT, USA. Stille imagiQ2 surgical table reduces C-arm radiation exposure with 20% relative to imagiQ. March 2013.

2 Coatti J. Stille imagiQ2: The Low-Dose Surgical table. Shoreline Surgical Associates, Middletown, CT, USA. April 2013. <http://www.stille.se/imagiq2/movies/> http://www.youtube.com/watch?v=yoGUFUegWc4&feature=player_embedded

3 Thomas Larzon MD, PhD. We have decreased ruptured aneurysm mortality by almost 50%. The International Newspaper for Vascular Specialists, Apr. 2013. http://www.stille.se/imagiq2/wp-content/uploads/Stille-supplement-proof_18Mar_v2_150dpi.pdf



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