Image-Guided Surgery (X-Ray, CT, PET, MRI and Ultrasound in Brain Surgery, Spinal Surgery and Other Applications)

Description: Imaging technology used to diagnose illness and injury is increasingly being used to assist surgeons complete procedures. Image-guided surgery involves the use of a real-time correlation of the operative field to preoperative imaging data that reflect the precise location of a surgical instrument to the surrounding anatomical structures. Preoperative scans from different imaging modalities provide additional diagnostic information. These scans can help a surgeon assess the adequacy of a repair.

As the number of minimally invasive surgical procedures has increased, though, other imaging modalities have been applied to address the limitations of x-rays and fluoroscopy. Computed tomography (CT), magnetic resonance imaging (MRI), ultrasound and molecular imaging have provided the information required to plan and perform complex interventions inside the body without the need for direct open visual inspection by a surgeon.

Kalorama Information's Medical Imaging Markets: Image-Guided Surgery provides insight into the use of imaging to assist surgical performance, with procedure and market data for North America, Europe, Asia and ROW for the following modalities: X-Ray Fluoroscopy, CT, MRI, Ultrasound, PET.

The report also provides revenue and procedure numbers based on procedures completed.

NOTE: The report does not contain numbers for biopsies, ablations or interventional radiology, only for imaging systems used to assist surgeries.

The following companies active in this field are profiled:
- B K Medical
- Brainlab AG
- Compass International Innovations
- Curexo Technology Corp.
- Elekta AB
- GE Healthcare
- Image Guided Therapy
- Imris
- Integra Lifesciences Holdings
- Medtronic
- NDS Surgical Imaging
- Philips Healthcare
- Siemens Healthcare
- SiteSelect Inc.
- Smith & Nephew plc
- St. Jude Medical Inc.
- Stryker Corp.
- SurgiVision Inc.
- Toshiba America Medical Systems Inc.
- TrueVision Systems
- Ultrasonix Medical Corp.
- Xograph Healthcare Ltd.
- Varian Medical Systems Inc.
- Vital Images Inc.
- Zimmer

The report also examines trends in the industry, including:

Partnering for Image-Guided Surgery
Improved Vascular Guidance
Image-Guided Biopsies on the Rise
Radiologists' Role Increases
Reducing Radiation Exposure
Reducing Shoulder Pain
Improving Spinal Surgery Outcomes
Cone-Beam Computed Tomography
Greater Use of Needle Biopsies
MIS Lateral Approach Platform
Image and Robotic Guidance
MR-Guided Ultrasound

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For Kalorama's take on the healthcare news of the week, based on our analysis of healthcare markets, follow Kalorama Information's Key Point Blog at http://kaloramakeypoint.blogspot.com/

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