Integration in Hybrid Operating Rooms
Devising Optimal Clinical Environments

At KARL STORZ we believe in order to perfect surgical outcomes within the operating theater, the technology in place should not force the staff to change their method of thinking or how they operate, but instead it must be developed around the needs of the surgeon and of the clinical staff. This is our founding principle not only while creating our instruments, our endoscopes, our medical units, our operating room integrated suites, but also when we approach complex environments like hybrid rooms.
While conceiving the Hybrid OR, we categorize it as a further extension of the Surgical Floor and not as an island with no or very little commonalities and connections with the specialty surgical suites. By designing and implementing Hybrid suites in conjunction with Specialty Surgery ORs, various medical professionals are provided with the advantages of an OR Integration suite designed not only for performing the surgical procedure, but also results in improved ergonomic performance, better team communication, workflow optimization, and ultimately a reduction in surgical and turnover time.

This allows the hospital to take full advantage of all their systems to better serve their patients and improve surgical outcomes.
System-wide Standardization Improves Utilization

In order to support the clinical staff who work in both types of surgical environments, KARL STORZ has designed a wide range of tools and applications to seamlessly obtain relevant surgical specific data and parameters to keep the staff fully informed. These tools, which are both fixed and mobile, provide for data informatics tied directly in an open architecture environment to HIS, PACS, and clinical worklists improving theater efficiency. Furthermore through standardization, the clinical staff realizes the benefits of system-wide access to not only this data, but can also stream video and services both within the hospital or externally world-wide ON-DEMAND. As part of a total comprehensive solution the hybrid suites not only open the door to advanced procedures, but also with an OR1™ system backbone communication and access will never be the same.
Navigating Advancements in Procedures

The iMRI operating room theater is a further example of complicated surgical environments which requires a standard process and system to fully realize its potential. To answer this challenge, KARL STORZ is the only company who has partnerships with these advanced solutions which are beyond a typical hybrid room. KARL STORZ in conjunction with various iMRI partners has developed a revolutionary concept for the intra-operative MRI suites. Due to highly technical requirements and various design protocols ensuring that the magnets do not disrupt the surgical visualization, now patients do not need to be transferred to another room for the magnet and digital image to work in real-time. The iMRI unit can be placed separately in another room on a rail system and remotely controlled into position without having to disrupt either the patient or the clinical staff. This enhances the performance of the surgical procedure and ensures the patient remains stable through even the most delicate and critical steps. KARL STORZ and OR1™ designed iMRI integrated platforms to further ensure that control, data, access and patient safety is available at all times.

A large number of treatments in Neurology and Neurovascular Surgery can benefit from this advanced system. These systems and designs for iMRI suites from KARL STORZ and its partners have proven to show better access and dissection of tumors, aneurysm clipping, Chiari decompression, hemispherectomy, stroke intervention or hematoma evacuation, as well as some Cardiovascular procedures like Atrial Fibrillation Ablation.
No longer should hospitals rely on fixed, high power C-Arms directly dedicated to specific ORs providing benefits to only a few disciplines. Hospitals can and will evolve and with further use of mobile systems, access to high-resolution X-Ray imaging without having to move the patient is now at hand.

KARL STORZ and its open and customizable solutions ensures that as mobile technologies are introduced necessitating advanced access to radiological images, those devices have a unified platform to connect, share, and store data effectively and efficiently.