

## New advances in interventional cardiology



The mobile Cath Lab from Ziehm

The worldwide aging population, the rise of chronic health conditions and of the incidence in cardiovascular diseases are leading to an increase in the demand for interventional procedures and Operating Room (OR) utilization. For all these reasons it is becoming ever more necessary for surgical operations to be as efficient as possible, while of course maintaining safety.

The intraoperative use of mobile C-arms meets this challenge. Increased surgical accuracy improves clinical outcomes, which, in turn, significantly reduce revision rates and thus overall healthcare spending. Mobile x-ray imaging devices also have lower acquisition and installation costs, which results in a faster return on investment in comparison to fixed installed systems.

### COMPREHENSIVE MOBILE HYBRID SOLUTION

The Ziehm Vision RFD Hybrid Edition\* mobile C-arm is designed to handle demanding interventional procedures. Additionally, for easy control, the new Hybrid Edition C-arm is the only system on the market to offer motorization of all four axes. For maximum dependability and to avoid any system failures due to overheating and to maintain a constant system temperature the new system is equipped with

an Advanced Active Cooling system.

Meeting all the requirements to transform conventional ORs into hybrid rooms in no time, the system requires no changes to the OR and so is ready for use immediately – without any extensive construction work.

Connectivity to 3D vascular navigation systems and contrast injectors — together with versatile display options, ceiling-mounted monitors, wireless solutions and a unique Usability Concept — make the new system ideal for demanding hybrid procedures such as TAVI, angioplasties and EVAR.

Together with their French daughter company Therenva, Ziehm are investing in the future of intraoperative 3D vascular navigation. Therenva's mobile image fusion system EndoNaut enables physicians to achieve better accuracy during challenging hybrid surgeries. Combining preoperative CT data with intraoperative images from the mobile C-arm on the EndoNaut system reduces radiation exposure and contrast media usage and gives even more precise results.

Software features such as Enhanced Vessel Visualization with automatic color display of vessels help define precisely contours and side branches, facilitating communication in the OR.

### POWERFUL CARDIOVASCULAR IMAGING IN A MOBILE CATHLAB

With the introduction of the most powerful generator on the market for mobile C-arms, the Ziehm Vision RFD Hybrid Edition with 30 kW (available in combination with dedicated cardio packages) provides increased clarity in cardiovascular imaging. The result of faster and sharper imaging, reduced motion artifacts and the use of dedicated parameters is that more details can be displayed. In addition, dedicated functions for coronary interventions and electrophysiology provide the best possible support during what are often very demanding procedures. Furthermore, special display and transmission options are available that are especially suitable for cath labs. Such options are well-known and have been established through many years of practice in hybrid rooms.

Together with their Dutch partner company, Fysicon, Ziehm Imaging are now going one step even further by offering a dedicated mobile hemodynamic measurement station to meet the needs of interventional cardiologists worldwide. The mobile CathLab solution provides more flexibility and freedom of movement and represents an alternative to conventional setups. *“The mobile concept has only advantages for me, my staff and my patients. I have not yet had a case that I could have solved better with a fixed system,”* said Dr. Rajaram Prasad about the Ziehm Vision RFD Hybrid Edition CMOSline in his mobile CathLab.

\*Ziehm Vision RFD Hybrid Edition represents a group of optional hardware and software that creates an option package on the device named Ziehm Vision RFD.

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