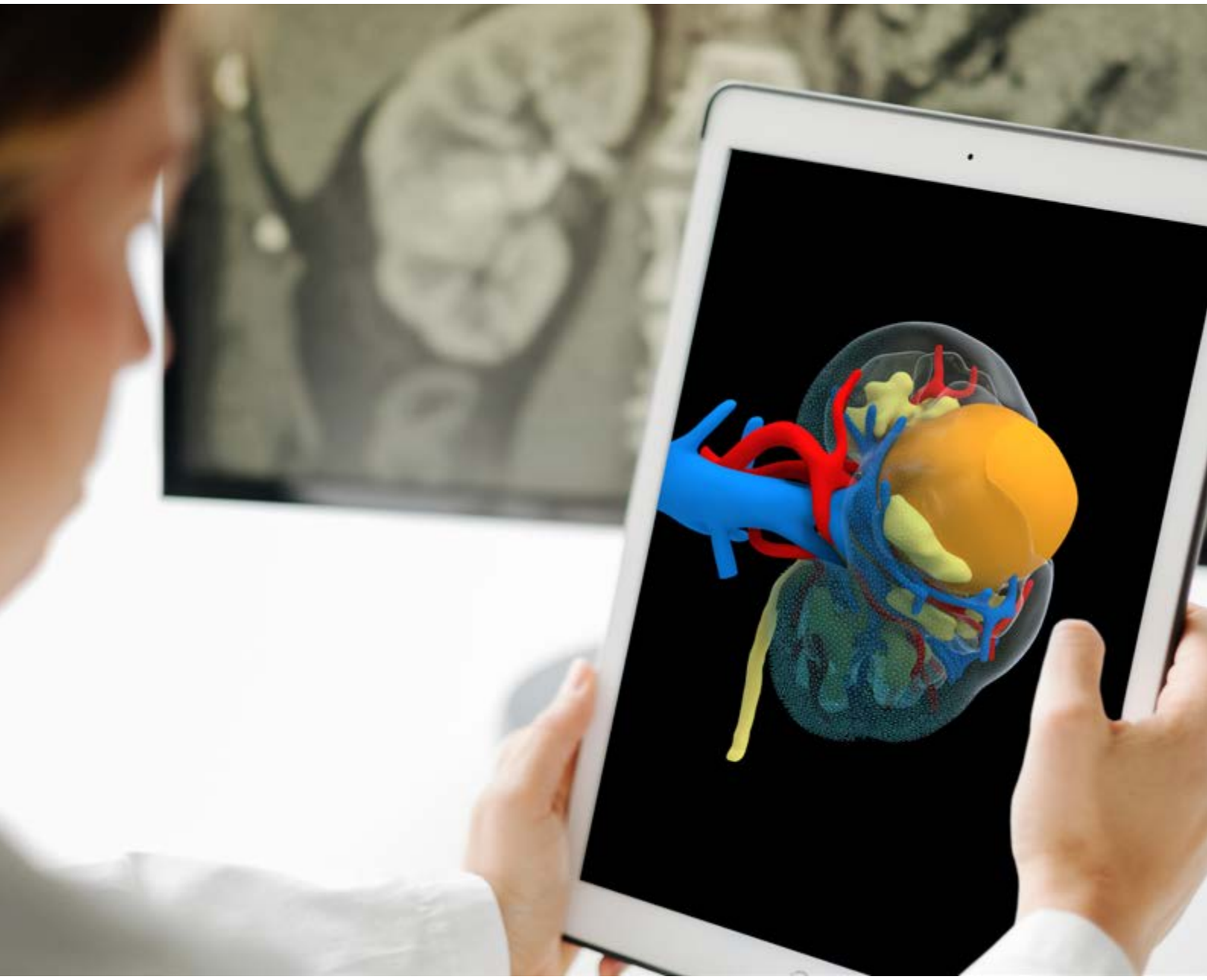
Hyper Accuracy 3D®

Reconstruct. Plan. Treat.



m3dics
tools for medicine

KARL STORZ—ENDOSKOPE

UROLOGY

Hyper Accuracy 3D® (HA3D®) anatomical reconstructions can support you in identifying the actual position and extent of the tumor mass in complex cases of partial nephrectomy and radical prostatectomy.

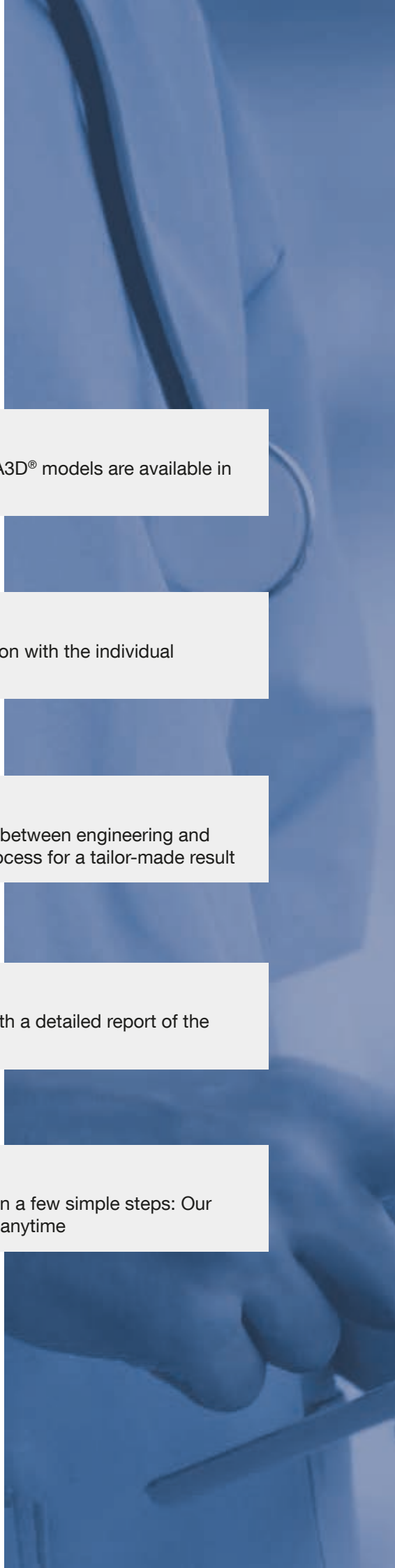
The HA3D® model helps you streamline pre-operative planning and intraoperative support of complex surgeries for an accurate, patient-specific anatomical reconstruction.

In the context of urological surgery, the HA3D® virtual anatomical models are especially designed to:

- Know and evaluate the relationship between healthy tissue and lesions
- More accurately analyze the course of the vascular system
- Analyze the relationships between vascular system and lesions
- Identify anatomical variants and anomalous vascular branches

To achieve the goal of a three-dimensional, highly accurate patient-specific anatomical reconstruction and optimizing surgeries, HA3D® was developed for you, your team and your patients.

WHAT ARE THE ADVANTAGES?



Fast response time

Thanks to the MyMedics cloud portal, our virtual HA3D® models are available in three working days

High interactivity

HA3D® models allow maximum freedom of interaction with the individual components of the anatomical reconstruction

Co-planning

The HA3D® models are the result of a collaboration between engineering and medicine: We support you throughout the whole process for a tailor-made result

Case analysis

Each HA3D® reconstruction is delivered together with a detailed report of the clinical case and the surgical planning study

Cloud-based

MyMedics allows you to obtain the HA3D® models in a few simple steps: Our technology is just a few clicks away, anywhere and anytime

WHICH SURGERIES?

APPLICATIONS IN UROLOGY

The HA3D® model allows you to interact with the anatomy and study the case within the following applications.

RENAL SURGERY

- Intuitive visualization of the vascular systems that supply the organ and the lesion to plan the clamping strategy.
- Getting a more accurate understanding of the actual spatial position and extension of the lesion in relation to the parenchyma.
- Simulating perfusion areas related to the arterial branches that supply the organ.

PRE-OPERATIVE PLANNING

- HA3D® model can help to determine the location and extent of the tumor to plan the optimized surgical strategy and ensure adequate future renal function.
- Supports developing a clamping strategy and optimizing the management of the renal pedicle.
- Morphological reconstruction of the arterial branches to highlight the structures involved in the resection and to estimate the areas of perfusion.

INTRAOPERATIVE PLANNING

- Identification and resection of planned and simulated vascular branches in cases of complex anatomical variants.

PROSTATE SURGERY

- Helps to intuitively increase the surgical accuracy by identifying the position and extension of the tumor lesion compared to the prostate gland and the bundles.
- Supports identifying the real anatomical morphology of the apex.

BENEFITS

The benefits of using HA3D® models to support renal and prostate surgery are particularly relevant in the context of partial nephrectomy and radical prostatectomy, where three-dimensional reconstructions can help in planning the surgical strategy for different procedures - open, laparoscopic, and robotic.

PRE-OPERATIVE PLANNING

- Improves the accuracy and radicality of the surgery in very complex cancer cases.
- Highlights the extracapsular extension (ECE).
- Facilitates determining the position and extension of the tumor to modulate the procedure and the nerve sparing technique.

INTRAOPERATIVE PLANNING

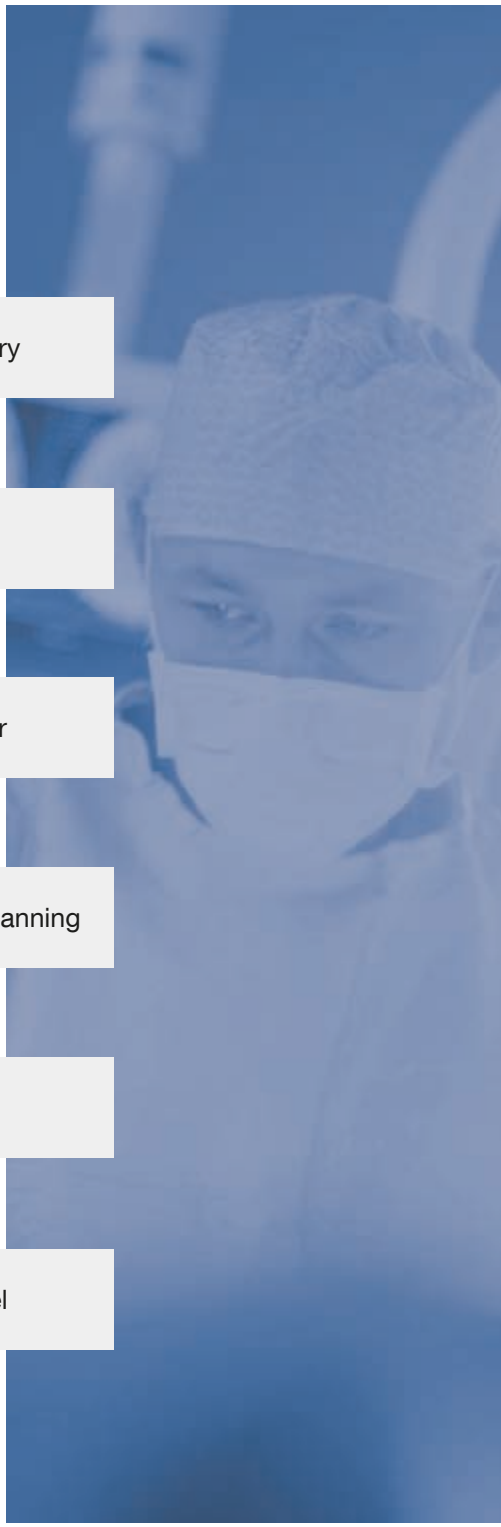
- By using HA3D® reconstruction, the previously developed planning can be reproduced.
- Identification of the site of the lesion to improve the radicality of the surgery.

MyMedics:
PLAN YOUR HA3D® MODEL

MyMedics is a cloud portal designed to help you improve and consolidate your communication with the engineers in charge of your HA3D® model.

It guarantees a constant interaction between you and the Medics engineering team, optimizing the management of cases: From the submission of medical images - in compliance with GDPR regulations - to the visualization of the rendering and finally, the creation and delivery of the virtual HA3D® model.

HA3D® WORKFLOW - FROM 2D TO HA3D®



Case opening and DICOM images delivery

Segmentation via medical software

3D Medical Device on MyMedics viewer

Collaboration for the elaboration of surgical planning

Case analysis detailed on the portal

Surgical simulation of the HA3D® model

ITEM NUMBERS

WHA3DURO-10	10 reconstruction licenses
WHA3DURO-20	20 reconstruction licenses
WHA3DURO-50	50 reconstruction licenses

Shaping the Future
of Endoscopy with you

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96131081 URO 02 1.0 05/2022/MB-E