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Intraoperative use of Viamo: initial experience

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Introduction

Today, multimodal therapy of colon carcinoma offers hope for many patients – even if the cancer has spread to the liver. Intraoperative ultrasound improves the detection of metastases during surgery. The new Viamo, a highly flexible and easy to use portable ultrasound system, is very well suited for intraoperative use. The case study presented below – a cooperation between the department of visceral surgery of our hospital (headed by PD Dr. H. Janßen) and our department – shows the intra- and perioperative use of the Viamo with a patient whose liver metastases decreased following chemotherapy.

Fig. 1: Subcapsular liver metastasis, intraoperative

Fig. 2: ADF mode with macrovascularisation

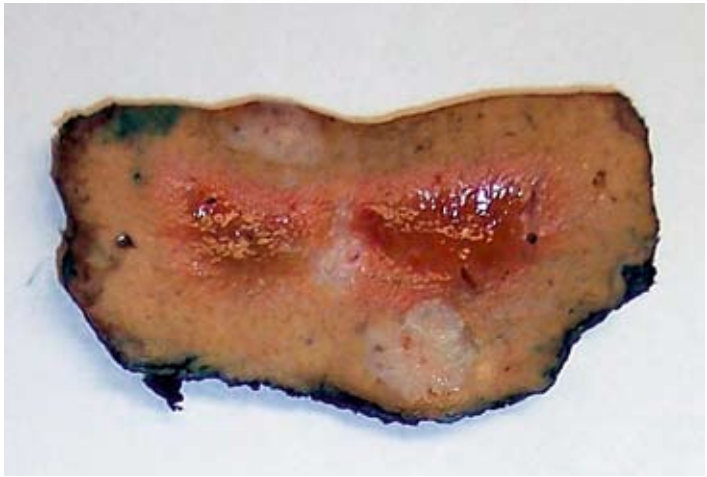

Fig. 3: Resection specimen of the metastasis

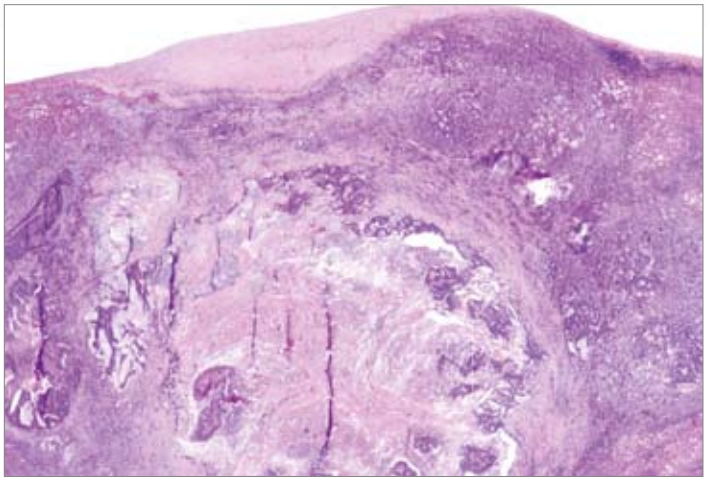

Fig. 4: Microspecimen of the metastasis

Conclusion

Due to the fact that tumor surgery is a promising therapy option for patients with liver metastases, high-resolution ultrasound is becoming increasingly important in the inter- and perioperative setting. Ease of use and image quality are two crucial factors determining the success of the therapy. Viamo combines the flexibility of a portable ultrasound system with the well known Toshiba b-mode image quality and is thus excellently suited for intraoperative use.

We would like to thank Dr. Joachim Alfer, Pathology Department, Hospital Düren, for the pathology images.

Fig. 5: Subcapsular metastasis

Fig. 6: Subcapsular metastasis

Fig. 7: Central metastasis

Fig. 8: Resection result, transcutaneous, post-surgery

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