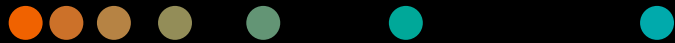


# Clinical case with myAblation Guide

Recurrence after A2 ablation



# We've got you covered

Rising demand for minimally invasive treatments calls for raising the standard in ablation. Together, Varian and Siemens Healthineers are positioned to offer you an integrated approach to image-guided procedures.

myAblation Guide offers a new way to plan microwave liver ablations and review outcomes. Clinician insights have led to the development of sophisticated software tools that support procedural planning and post-treatment assessment, helping to enable complete tumor coverage.

The University Hospital Erlangen has partnered with Siemens Healthineers to integrate myAblation Guide into clinical practice. As an advisory partner in its development, the University Hospital Erlangen is now gaining first clinical experience with the software as part of a structured feedback program. The hospital is launching a clinical study to evaluate the impact of myNeedle Guide and myAblation Guide in liver ablation outcomes.

## Clinical case

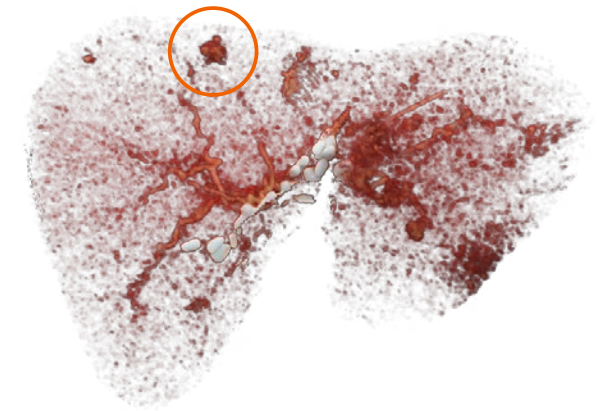
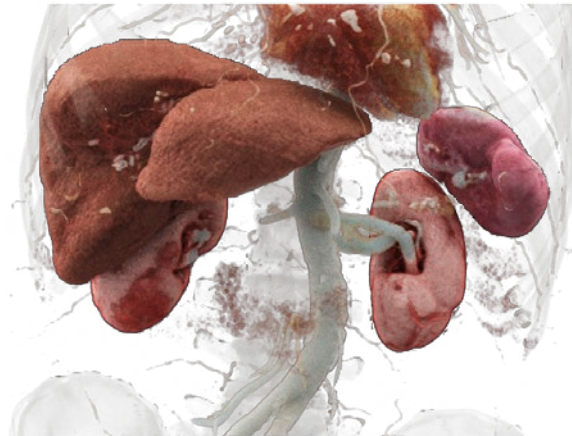
# Multifocal HCC in Segments 4 and 8

### Patient profile

62-year-old male, no comorbidities.

### Diagnosis

Multifocal HCC (Segment 4: 3.0 cm; Segment 8: 1.9 cm). Arterial phase hyperenhancement with portal venous washout on CT. BCLC Stage A: No vascular invasion or extrahepatic spread.



## Initial treatment (2023)

Segment 4 Lesion:

Laparoscopic partial hepatectomy with tumor-free margins.

Segment 8 Lesion:

Image-guided percutaneous microwave ablation (MWA), achieving a 1 cm safety margin.

## Follow-up findings

At 6-month follow-up:

No Local Tumor Progression (LTP) visible.

At 12-month follow-up:

LTP identified in Segment 8 on imaging.

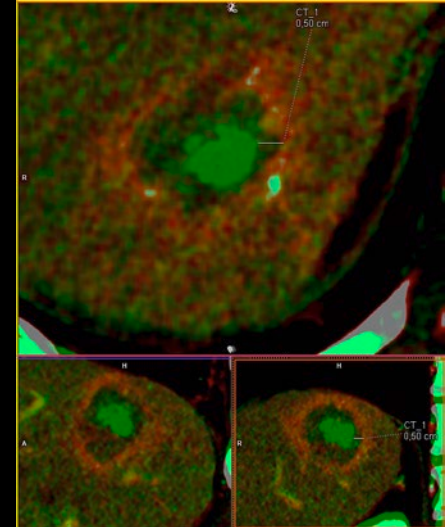
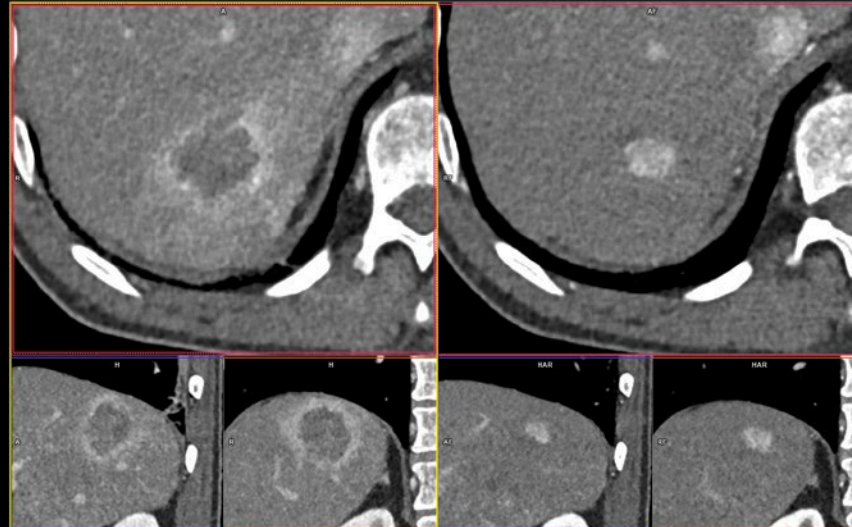
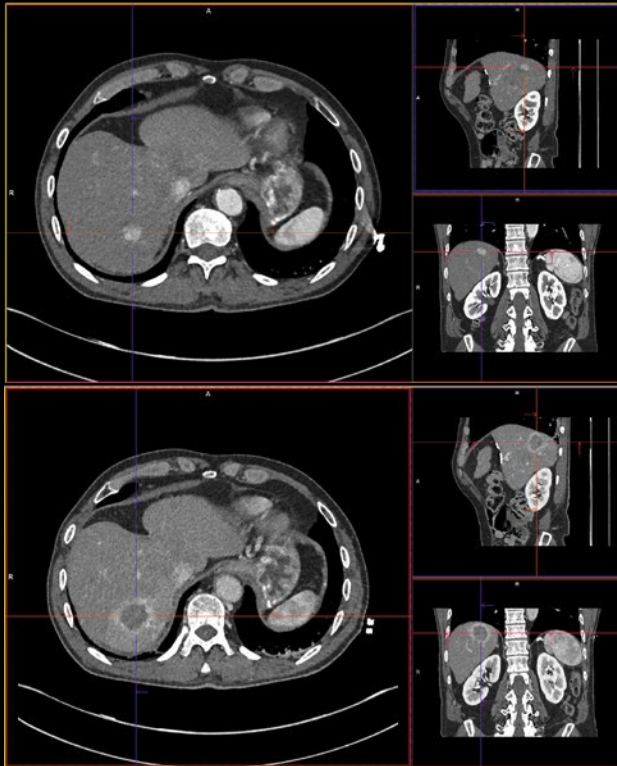
CT shows enhancement at ablation margins, consistent with recurrence. AFP slightly elevated.

## Initial ablation in March 2023

The initial ablation was performed under CT guidance. A SOMATOM X.cite with myNeedle Companion was used. The ablation was technically successful.

The patient was discharged on the next day after an uneventful procedure.

## Assessment of first case with rigid fusion: A0, A1 or A2?

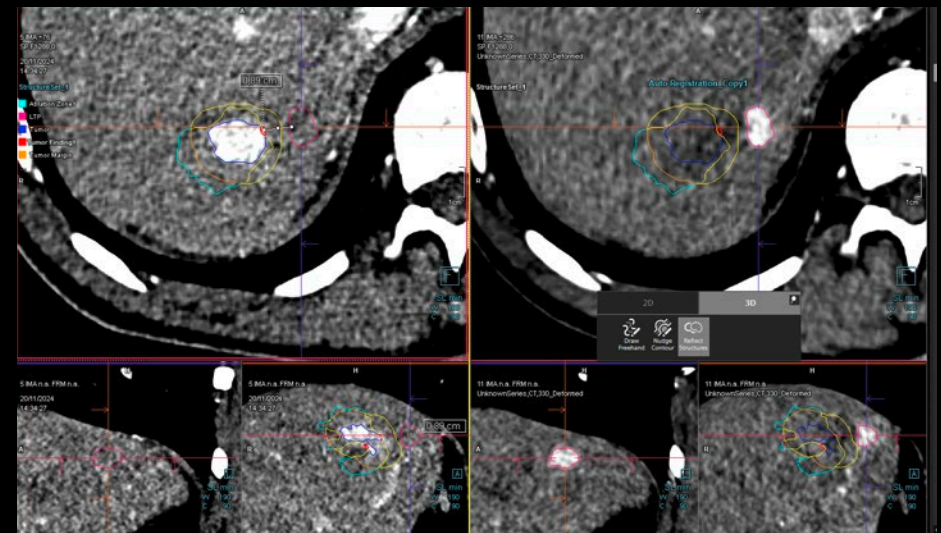
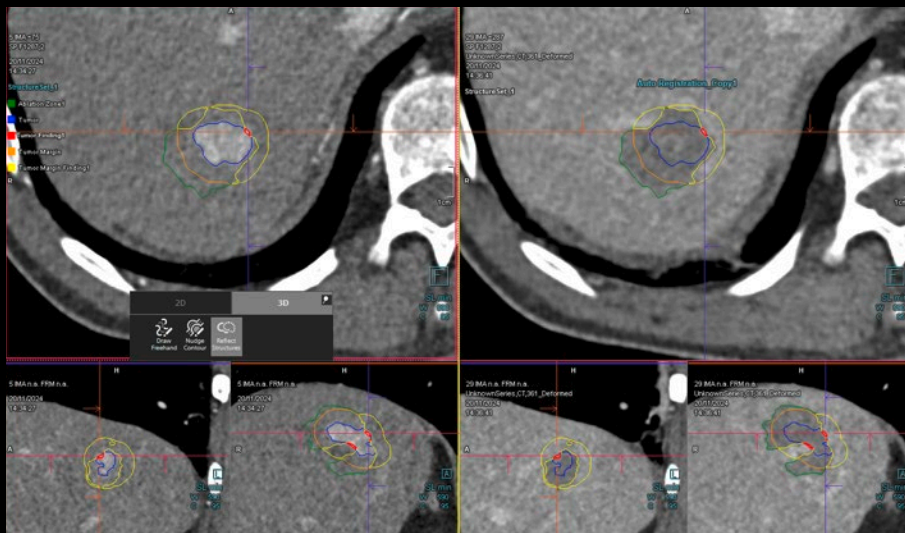


## Retrospective analysis with myAblation Guide

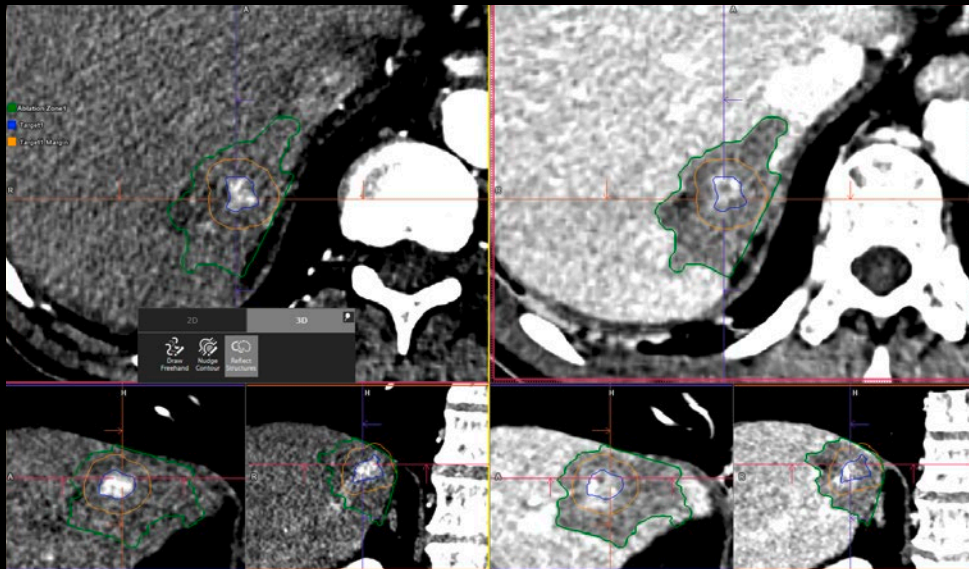
Retrospective assessment using myAblation Guide segmentations and deformable registration shows that the medial/caudal margin were uncovered, and that a 2 mm portion of the tumor was not ablated.

## Local tumor progression

In November 2024, the patient was diagnosed with a tumor progression. Comparing the location of the progression to the ablation assessment, shows a clear spatial relation between the A2 zone and the LTP.



## Successful re-ablation



## myAblation Guide

# A game-changer in ablation precision

### Key takeaways

## 1. Prevention of recurrence

myAblation Guide supports comprehensive margin assessment during ablation, reducing the likelihood of local tumor progression (LTP).

In this case, myAblation Guide retrospectively identified a critical 2 mm gap that directly correlated with recurrence.



## 2. Enhanced procedural confidence

Intraprocedural visualization of ablation zones and margins enables confident, precise treatment.



### Why it matters

Integrating myAblation Guide into your workflow can help you transform outcomes in complex tumor ablation cases, making precise ablation achievable even in challenging anatomies.

The products/features mentioned herein are not commercially available in all countries. Their future availability cannot be guaranteed.

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