

NAVIOSTM CT

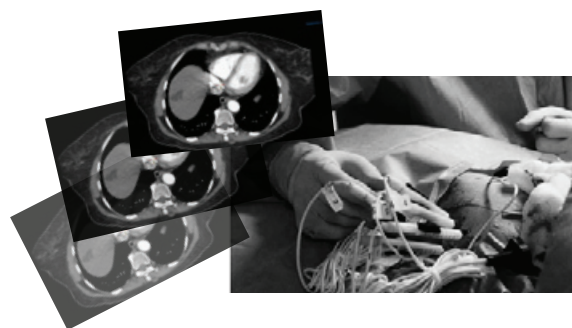
Integrated visualisation and treatment planning platform for Interventional Oncology therapies



TUMOR ABLATION

Current practice

Today, clinicians plan their interventional oncology procedures by viewing 2 dimensional CT slices, and combining what they see with their understanding of human anatomy, to determine the optimal approach to target the tumor. They must determine the probe trajectory path and the amount of energy needed to destroy the tumor, while sparing healthy tissue.



NAVIOS

A new approach

Clinicians can now **visualize and plan** an entire ablation procedure in 3D - pre-operative registration, segmentation and visualization of tumor and multiple organs, multi probe placement planning, estimated ablation volume* visualization, probe placement sequence, all before advancing a single probe into the patient.

Once ablation has been completed, NAVIOS' visualization tool allows the clinician to **verify** if the procedure was executed as planned and determine whether additional treatments may be required. NAVIOS' **reporting tool** then generates the required reports.

Tumor ablation made easier and more predictable.

* As provided by the device manufacturer or as determined by the clinician.

“Solutions like this will help Interventional Oncologists to plan and achieve AO ablation which is as important as RO resection in surgery.”

Dr. Riccardo Lencioni, MD, University of PISA, Italy



Clinicians benefit from NAVIOS' intelligent planning suite...

- Registering pre-operative images and off-line plan with current CT images
- Organ specific tumor visualization and segmentation
- Multiple VOI, multi-probe placement plan for multiple IO procedures
- Post procedure verification

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PLAN

1. Segment one or more Volumes of Interest, identify no-go regions, define tumor margins
2. Target tumor, with upto 6 probes, on 2D / 3D image
3. Visualize and edit estimated ablation volumes*

EXECUTE

4. Perform intra-operative registration to verify probe placement and adapt subsequent plan(s), if needed

VERIFY

5. Register post-operative and pre-operative organ images
6. Verify if volume within tumor margin is ablated fully, extend treatment if needed
7. Generate patient reports to document procedure
8. Image registration may be used to monitor tumor progression during follow-up visits

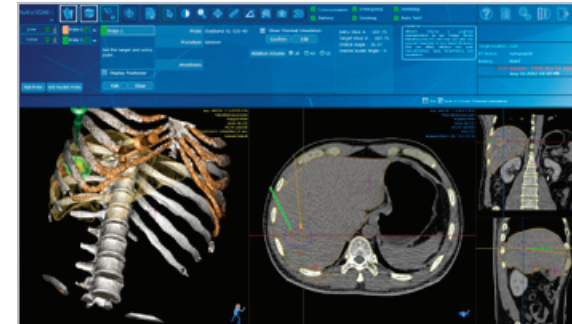
- Works with all DICOM 3 CT images
- Organ specific* workflow packages for liver, lung & renal ablation

* Please contact your Perfint representative for details



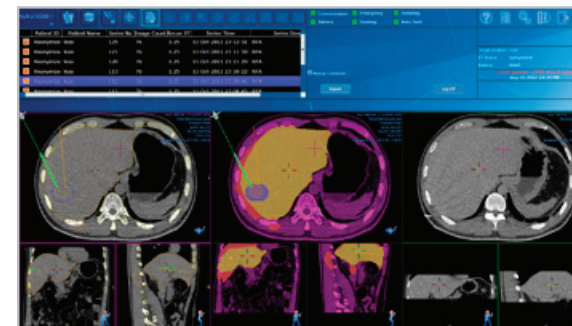
Pre-operative

NAVIOS' powerful planning software provides 2D and 3D visualization of the affected region, and a wide range of tools to aid the development of the plan.



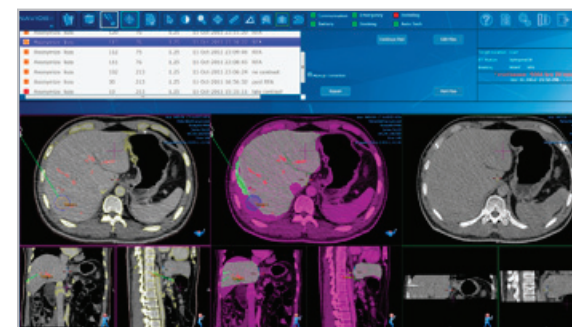
Intra-operative

NAVIOS allows clinicians to move seamlessly from planning to execution. Its intra-operative registration allows verification of probe(s) placement prior to ablation.

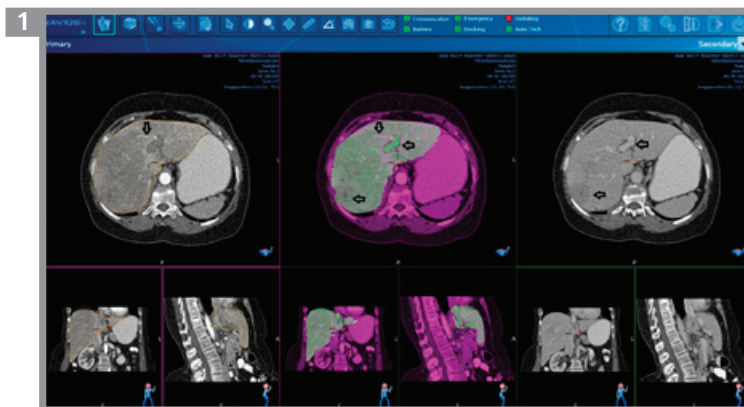


Post operative

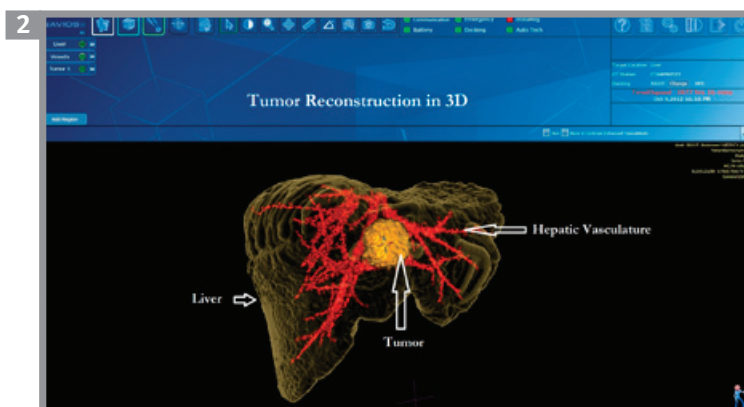
Post-procedure images can be viewed, and compared to the plan or pre-operative images



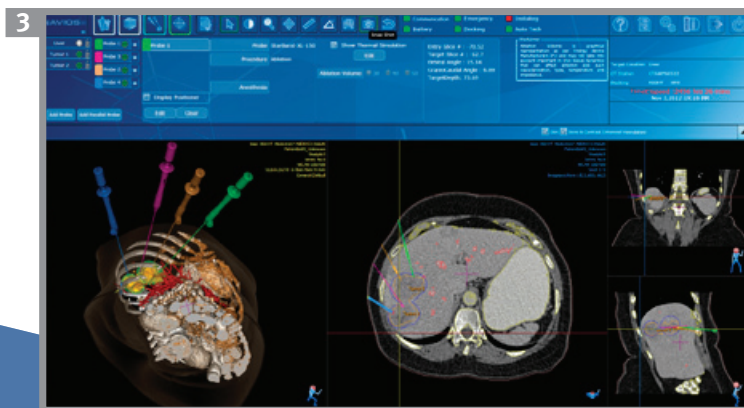
Multi phasic contrast image of liver co registered prior to procedure planning on NAVIOS suite



Intuitive one touch segmentation helps segment organs & tumor



Multiple probe / multiple VOI planning



With NAVIOS everyone benefits...

Clinicians are better able to plan interventional oncology procedures with the help of NAVIOS' visualization and planning software, then successfully perform the procedure.

Hospitals are looking for efficiency and it's the goal of NAVIO to make interventional procedures faster and more predictable, a key challenge to scheduling of the CT suite.

Patients deserve access to life-saving treatments that are safe and effective. NAVIOS strives to reduce the potential for unintended organ damage due to repeat punctures and is likely to reduce the need for repeat scans which would mean less radiation exposure for the patient.



*“Together with clinicians,
improve quality of life of
those fighting cancer”*