



# myrian™ XP-Liver

“The world’s leading solution for hepatic volume measurement and liver surgery planning.”

Myrian™ XP-Liver has transformed the way liver pathologies are handled. Using unique, breakthrough segmentation algorithms, it takes the user literally only seconds to isolate entire hepatic vascular systems, including portal and hepatic veins, healthy parenchyma and lesions. The volume of each target is measured with high precision and if needed displayed in 3D. As soon as you feel ready to simulate surgical intervention you can freely define a cutting surface and obtain for each scenario the exact volume of resected liver. Seamlessly integrated at the core of the Myrian™ Expert VL workstation, Myrian™ XP-Liver sets a new standard both as a productivity tool and as a clinical support to decision-making for liver surgery planning or interventional radiology operations, to assess the results of a portal embolisation or to prepare a living donor transplant. Myrian™ XP-Liver is used in routine practice in the world’s leading liver surgical centres where it instantly generates highly accurate, dependable and reproducible measurements, as well as images which facilitate interdepartmental communication.

**Prof. Yves GANDON**

Rennes University Hospital (France)

*«I use Myrian™ XP-Liver every day to calculate liver and tumour volume measurements both accurately and reproducibly, which is critical when planning an hepatectomy. It now takes me barely 3 minutes to carry out tasks that used to take at least 45 minutes per study.»*

**Prof. Jacques BELGHITI**

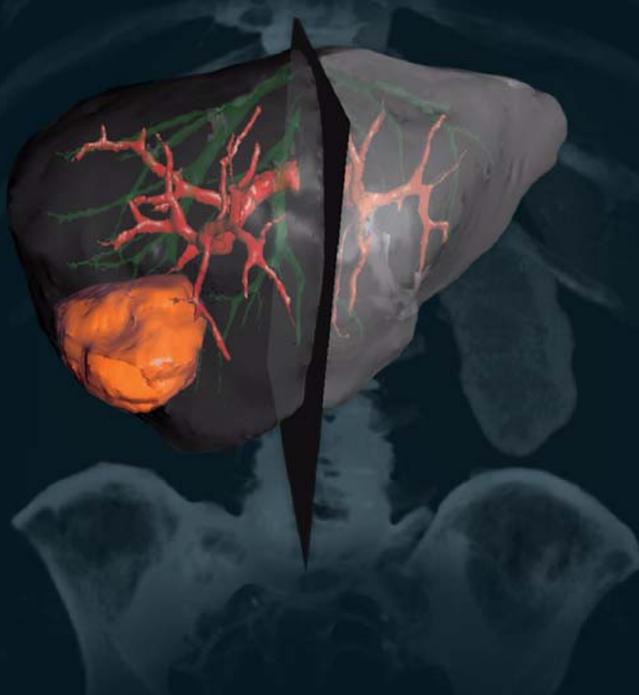
Beaujon Hospital, AP-HP (France)

*«I use Myrian™ XP-Liver in my department to make crucial decisions on if and how a complex operation can be carried out. I find it very easy to visualise 3D liver and vascular reconstructions then simulate various surgical intervention scenarios, instantly obtaining the exact volumes of both resected and remaining liver. We are now able to successfully share images during medical staff meetings, to optimise our decisions and to safely carry out tasks other applications could not perform.»*

**Prof. Olivier SEROR**

Jean Verdier Hospital, AP-HP (France)

*«Myrian™ XP-Liver, with its remarkably effective segmentation algorithms, is a terrific tool for analysing the liver and liver tumours in 3D, which is vital in intervention radiology to decide upon and plan treatment such as percutaneous tumour ablations.»*



### Multiphase display

Liver protocols set the right work-space automatically, displaying arterial, portal venous and delayed phases in comparison mode

### Liver segmentation

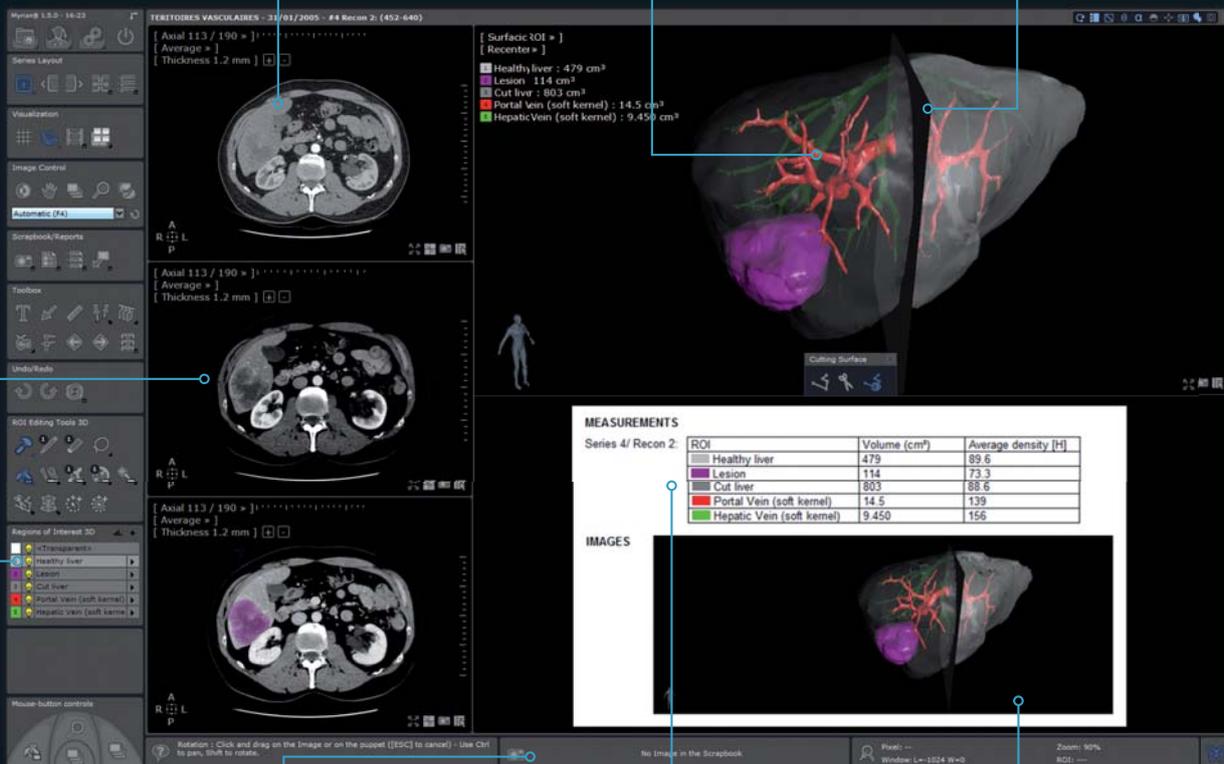
Use the segmentation engine that built the Intrasec™ reputation to isolate hepatic parenchyma in one click and obtain the healthy liver volume both accurately and reproducibly

### Vascular segmentation

Powerful vascular segmentation engines automatically segment liver vessels, thereby simplifying the planning of surgery

### Cutting plane

You are now ready to simulate hepatectomy using the adjustable cutting surface. Both remaining and resected liver volumes are accurately calculated for each potential scenario, helping you make the right decision



### Density histogram

Instantly publish a histogram of densities, sizes and other measurements for each volume of interest. The histogram can be exported to Microsoft® Excel, reports or to a PACS in DICOM format

### Animation

To improve the sharing of your work, instantly produce a series of images around an axis of rotation and generate an AVI movie of the result

### Integrated report

Having isolated parenchyma, lesions and vessels, simulate surgery and calculate the volumes then, in one click, publish a report containing numbers and images that can be saved in RTF or DICOM format

### Surface rendering

Use the outstanding surface rendering tool, tweaking colour and transparency levels at will, to visualise lesions, parenchyma and vessels all at once. Document reports with powerful images

## Tools

- Automatic segmentation of liver tissues
- Automatic segmentation of the portal vein
- Automatic segmentation of the hepatic veins
- Surgery simulation (cutting surface)
- Automatic measurement of remaining and resected volumes
- Advanced visualisation in surfacic mode
- Smart protocols with optimised workspace (3 customizable dedicated protocols provided)
- Specific step-by-step hepatectomy planning wizard
- Automatic generation of customizable, dedicated reports

### Compatibility

- Runs on Windows® XP, Windows Vista®, Windows 7™



### Compatibility

Myrian™ Expert VL

	Processor	RAM	Screen Resolution	Graphics Cards	Operating System
Minimal configuration	Intel® Pentium® III™ or AMD® Athlon®64™	2 GB	1024x768	nVIDIA™ GeForce™ 7800 GTX	Microsoft® Windows® XP Pro SP3 32 bits
Recommended configuration	Intel® Core™ 2 Quad or Duo	4 GB	2 MP monitors	nVIDIA™ GeForce™ 8800 GT 512 Mb and GTX260 896 Mb ATI Radeon™ HD 4890 1024 Mb	Microsoft® Windows® XP Pro SP3 or Windows® Vista Business SP2 32 bits

