

QP-Liver®



**QP-Liver®**  
Optimizing liver  
disease evaluation

## Discover QP-Liver®

**Chronic liver disease is a major healthcare burden**, causing high morbidity and mortality rates and straining medical resources.

It accounts for 2 million deaths, representing approximately 4% of global casualties<sup>1</sup>. Non-alcoholic fatty liver disease (NAFLD), the most prevalent liver disorder globally, is characterized by fat accumulation in the liver (steatosis).

**Patients with widespread liver disease and metabolic disorders often have abnormal liver iron deposits.** While histopathological examination is considered the gold standard, it has limitations such as invasiveness, sampling errors, variability, and patient discomfort.

**Our innovative approach eliminates the need for invasive procedures**, providing valuable insights for informed decisions and improved patient care.

With QP-Liver®, **personalized liver disease management** is made possible through advanced technology, including early detection, precise monitoring, and personalized treatment plans.

QP-Liver® is a post-processing solution that performs fully automatic analyses of abdominal MRI examinations containing a multi-echo chemical shift (MECSE) sequence. Through this innovative approach, **we generate parametric maps of fat and iron, offering voxelwise resolution and a structured quantitative report that compares liver values with normative data.**

Our cutting-edge tool quantifies fat and iron concentration, enabling comprehensive steatosis and iron overload evaluation. By delivering accurate measurements and comparative analysis, as well as improving the quality of radiologist reports, **healthcare professionals can improve the decision-making process.**

## Advanced tech for improved reporting and workflow

- Integration with clinical workflow and PACS, ensuring seamless operation and enhanced efficiency.
- Supports clinical workflow and improves decision making for Liver MRI exams.
- Automates MRI-based whole-liver segmentation, saving time and reducing manual labor.
- Rapid fat and iron quantification provides precise measurements to assess disease severity more accurately.
- Correlates quantification with digital pathology data<sup>2</sup>, enabling comprehensive analysis.
- Reduces the need for invasive procedures, minimizing patient discomfort and associated risks.

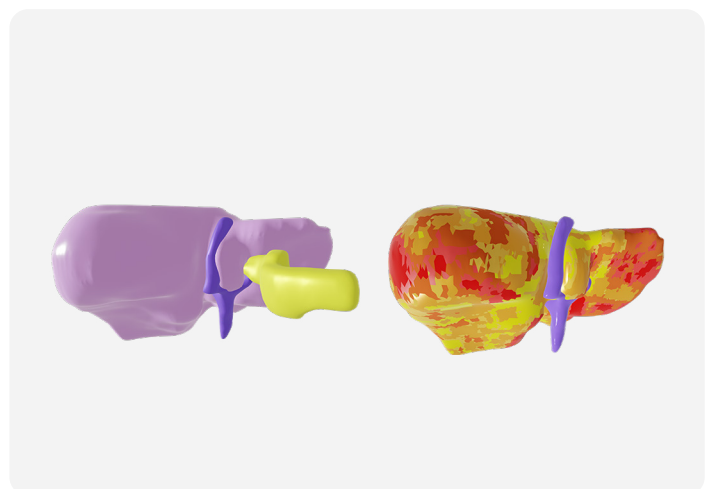
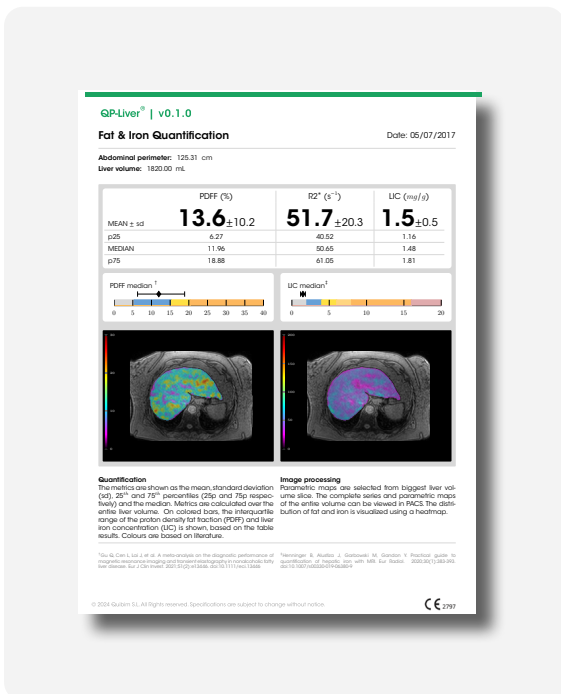


Figure. (Left) 3D liver, pancreas, and hepatic vein model segmented from a MECSE magnetic resonance imaging. (Right) Representation of fat concentration in liver tissue.

# QP-Liver®:

## Optimizing liver disease evaluation



### 1. AI-Segmentation<sup>3</sup>

Automate whole abdomen and liver segmentation with our state-of-the-art tool, saving valuable time for clinicians by eliminating the need for manual segmentation.

### 2. PDFF\* and iron concentration<sup>3-4</sup>

Accurately quantify fat and iron in the liver, with the highest correlation to liver biopsy, while controlling all possible confounders<sup>3</sup>.

\*Proton Density Fat Fraction (PDFF)

### 3. Structured reporting

Empowered by AI, QP-Liver® generates a comprehensive quantitative report that includes the most suitable parameters for enhanced patient care in daily clinical practice.

#### REFERENCES:

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2. Marti-Aguado D., et al. Automated Whole-Liver MRI Segmentation to Assess Steatosis and Iron Quantification in Chronic Liver Disease. (2021). *Radiology*.
3. Jimenez-Pastor A., et al. Precise whole liver automatic segmentation and quantification of PDFF and R2\* on MR images. (2021) *Eur Radiol*.
4. França M., et al. Accurate simultaneous quantification of liver steatosis and iron overload in diffuse liver diseases with MRI. (2017) *Abdom Radiol (NY)*.

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