

QP-Liver®



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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 casualties¹. 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 data², enabling comprehensive analysis.
- Reduces the need for invasive procedures, minimizing patient discomfort and associated risks.

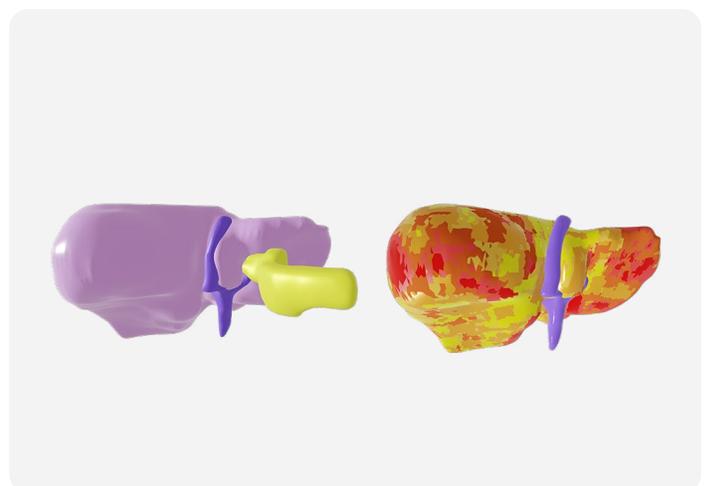
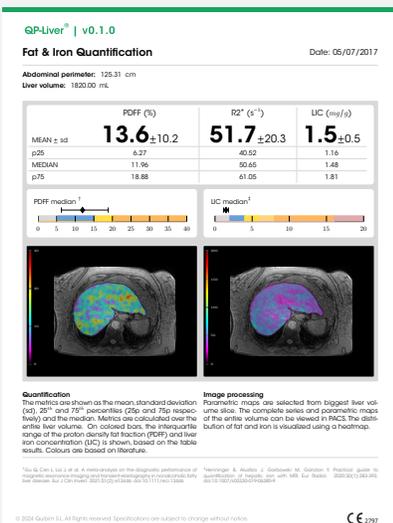


Figure. (Left) 3D liver, pancreas, and hepatic vein model segmented from a MECSE magnetic resonance imaging. (Right) Representation of fat concentration in liver tissue.

QP-Liver®:

Optimizing liver disease evaluation



1. AI-Segmentation¹

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 concentration³⁻⁴

Accurately quantify fat and iron in the liver, with the highest correlation to liver biopsy, while controlling all possible confounders³.

*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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