GE Healthcare

Hepatic VCAR

Providing automated segmentation and assessment of Liver and Liver Lesions enabling a fast and efficient workflow.

Clinical and Technical Background

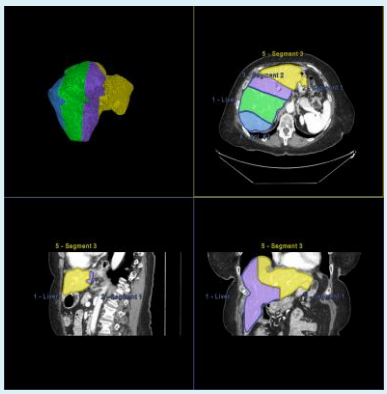
Liver disease is a major cause of morbidity and mortality globally. Liver cancer is currently the 3rd most common primary cancer, as well as a common site for metastatic disease. Detection and treatment monitoring of Liver lesions requires measurement and change monitoring tools. In addition planning for surgical resection requires the determination of the volume of liver, liver lobe or a liver segment.

Overview

Hepatic VCAR gives you a complete reading workflow solution for detecting liver lesions with exceptional flexibility and performance. With it you can visualize and measure liver, liver segments and liver lesions. Determine tumor burden. Also a full integration with Spectral CT allows for use with GSI data. And the program lets you generate a clear, concise clinical report.

Highlights

- The program allows you to automatically segment the liver.
- Intuitive tools to generate liver segments.
- Intelligent user guided segmentation algorithms to size liver lesions.
- Integration with Spectral CT allows for quantification of Iodine to aid in lesion characterization when used with GSI datasets.



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Features

- Load multi-phase arterial and venous acquisitions with automated detection of Portal Venous phase driving liver segmentation.
- Intuitive user guided intelligent lesion segmentation.
- Built-in lesions overlap detection and avoidance.
- Tumor burden calculations linked to segment, lobe or whole liver.
- Efficient management of lesions and tumor burden for longitudinal exams.
- Intuitive editing tools for quick and easy refinements if needed.
- Volume rendered visual depiction of the lesion and liver along with liver lobes, liver segments and portal vein for longitudinal comparison
- Portal Vein based liver segmentation capability with color coding of segments
- A selection of application-specific tools ensures ease of use and thorough exams.
- Your workflow benefits from fast, interactive electronic patient reporting.
- Create layouts to match your reading style.

System Requirements

Minimum platform release:

- AW Workstations VolumeShare 7 and AW Server 3.1 or later.
- Color Monitors (Landscape and Portrait orientations are supported)
- Single or Dual Display Monitors for AW Server

Indications for Use

Hepatic VCAR is a CT image analysis software package that allows the analysis and visualization of Liver CT data derived from DICOM 3.0 compliant CT scans. Hepatic VCAR is designed for the purpose of assessing liver morphology, including liver lesion, provided the lesion has different CT appearance from surrounding liver tissue; and its change over time through automated tools for liver, liver lobe, liver segments and liver lesion segmentation and measurement. It is intended for use by clinicians to process, review, archive, print and distribute liver CT studies.
This software will assist the user by providing initial 3D segmentation, vessel analysis, visualization, and quantitative analysis of liver anatomy. The user has the ability to adjust the contour and confirm the final segmentation.

Regulatory Compliance

This product complies with the European CE marking regulation following Medical Devices Directive: Directive 93/42/EEC.

Reference

GE would like to thank Service d'imagerie Médicale CHU Henri Mondor, Université Paris Est Créteil, APHP France, for all their help in evaluating this product.

GE imagination at work

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