HERMIA

RELEASE NOTES

Hybrid Viewer 7.2.0

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www.hermesmedical.com

HERMES MEDICAL SOLUTIONS

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1 INTRODUCTION

These Release Notes inform users of news and improvements in Hybrid Viewer, as well as any known issues to be aware of. Every user must be familiar with these known issues. Contact the manufacturer for any questions about the content.

This is an electronic document, a copy of which can be downloaded from www.hermesmedical.com/ifu. Hard copies of Instructions for Use, System Environment Requirements, and Release Notes are available for free (as many as number of purchased licenses) upon request.

1.1 Associated documentation

- P31-193 Instructions For Use Hybrid Viewer 7.2.0 Rev.4
- PC-007 System Environment Requirements, applicable revision can be found at www.hermesmedical.com/ifu.

The Instructions For Use contains the necessary basic information to configure the application at your own preferences.

A user guidance, intended to assist users in using the software, is available from the Help function in the software itself.

Warning messages are now listed in both the Instructions For Use and the user guidance. The warning messages clearly describe intended users, limitations in the software and the risks of making changes to the software.

1.2 Complaints and serious incidents

Report incidents and errors to our support, see *Contact Information*.

Any serious incident that has occurred in relation to the device must be reported to the manufacturer.

Depending on applicable regulations, incidents may also need to be reported to national authorities. For the European Union, serious incidents must be reported to the competent authority of the European Union Member State in which the user and/or patient is established.

Hermes Medical Solutions welcomes feedback from readers of this manual, please report any errors in content or typography and suggestions for improvements to our support, see *Contact Information*.

2 NEWS AND IMPROVEMENTS

2.1 New Features implemented in Hybrid Viewer 7.0

These are the new features introduced in this release:

- DMSA: now supports automatic region creation, motion correction for dynamic studies, and support for SPECT studies
- Renogram: Geometric mean analysis for post micturition dynamics
- Renogram: Combine tab now supports separate markers for each study
- Gastric Emptying: Option to create an image layout for planar studies
- Gastric Emptying: Extra Nottingham University Hospital calculations
- Organ Dosimetry: Option to read regions drawn in Affinity
- Pseudo planar lung images can now be generated from a tomographic acquisition study without user interaction
- Create screencap without patient information while still maintaining name on screen
- Support for reading and writing DICOM SEG files for PT studies
- Neurology and Cardiology studies rotated during reconstruction with Hybrid Recon are now correctly displayed
- QC: Calculation of Efficiency factor added to QC tools
- Gall Bladder: Additional markers and I-123 decay correction
- Renogram: Geometric mean analysis for post micturition dynamics renal studies
- Motion Correction: Possibility to save both dual isotope studies
- Option to remove patient information in screen captures while still maintaining name on screen
- Various improvements to comply with the new MDR requirements

2.2 New Features implemented in Hybrid Viewer 7.1

These are the new features introduced in this release:

- Licensing support for syngo.via/OpenApps integration added.

2.3 New Features implemented in Hybrid Viewer 7.2

These are the new functions introduced in this release:

- Centiloid result for amyloid BRASS – The user shall be able to see the Centiloid result to be able to standardize the results comparison no matter which amyloid tracer is used. It shall be possible to display the Centiloid result for the following radiopharmaceuticals: Amyvid (Florbetapir), Neuraceq (Florbetaben) and Vizamyl (Flutemetamol).
- Dosimetry: Accept regions associated with a CT study – The user shall be able to load regions created on a CT study so that the regions don't have to be drawn in this application. The regions must be in the DICOM SEG format.
- Display extracted WB images from Veriton (506*256 matrix) in same scale as traditional WB
- Display 3D reprojections performed with different normalization methods at the same time
- Handle Veriton re-projected planar and planar dynamic images for all NM processing
- Don't show notification if previously aligned datasets are launched back into BRASS
- Additional option for motion correction on Dynamics – The user can choose from more manual motion correction options so that patient movement is better handled
- Assay time for full and empty syringes for Bubeck clearance – The user can enter full and empty syringe assay times so that a decay correction relative to the injected time can be

done. 'Net Injected Dose' is calculated as the difference between full and empty syringe activities decay corrected to the 'Injected Time'
- Dosimetry: Does not re-copy regions which are already present on all time points
- Display Renderer - new information displayed in the About Box to show which graphic card is in use

2.4 Problems fixed and minor enhancements in version 7.0.2

There are several problems fixed and minor enhancements in this release. A selection of issues are listed below:

- Renogram: New option to always skip last frame for result calculations
- Organ Dosimetry: Ability to delete ROIs which are part of VOIs
- Salivary: Uptake and Relative Uptake Ratios now calculated on first dynamic of dual phase study
- Liver Remnant: Extra masking volumes added and masking problems fixed
- BRASS: Removed option to save with Compatibility set to "No". Various problems fixed.
- Thyroid: Option to display thyroid image with and without ROIs and marker points
- Various improvements and fixes to maintain compatibility with latest acquisition cameras
- New functionality for Edit feature to speed up multiple Region edits
- Improve some warning messages issued by the application
- Several updates in the User Handbooks
- SUV values displayed using sphere triangulation now only displayed for the current orientation
- DICOM print and movie labels now honoured
- RenalCurve option removed

2.5 Problems fixed and minor enhancements in version 7.1.1

No problems were fixed, and no enhancements were made in this version.

2.6 Problems fixed and minor enhancements in version 7.2.0

There are several problems fixed and minor enhancements in this release. A selection of issues are listed below:

- Liver Remnant: Process Liver Remnant study and create a print – additional displayed values, enter/update patient height and weight
- Renogram: Application to process dynamic renal studies – added option to display Orthostase graph
- Load DICOM Modality NM RECON TOMO - more displayed values, enter/update patient height and weight, possibility to overlay patient height and weight in the main window
- Load DICOM Modality PT - more displayed values, enter/update patient height and weight, possibility to overlay patient height and weight in the main window
- SUV Scaling – The application used to prevent displaying SUV for dynamic acquisitions that started before injection, but now it calculates and displays the value.
- Error when loading DICOM Dynamic multi-pass PET data has been fixed
- Error with dose report files that won't display has been fixed

3 KNOWN ISSUES

There are no known issues related to patient safety in Hybrid Viewer.

Below is a selection of open known issues relevant to the end users.
All issues have been risk analyzed and have been classified as acceptable.

General
- Two splash widgets are displayed one on top of each other on a dynamic tab
- 2D ROI value not displayed beside ROI with 3D data
- SUV different in triangulation sphere depending on TCS view for same sphere
- Pre/post tab of Hybrid Viewer, VOIs are grouped by number rather than by name, causing some incorrect names to be presented
- Loss of Hybrid Recon orientation when data is pulled/retrieved from PACS
- When single sample Bubeck result file is reloaded the second sample box is checked on
- Unable to display clearance results tab on Combined tab in renal
- MUGA/FUGA: LV region not drawn due to high spleen uptake
- Screen capture set to modality type OT instead of SC

Saving
- Saving cardiac PT study causes overflow
- Label issue in SC using "commonSeriesUidForPrints"
- User Metz filter is not saved

Printing
- Quick Print with 8Fusion protocol only prints first screen
- Quick Print crops bottom of image

NM Processing Workflows

Renogram
- Values of dynamic post-mict are not plotted for Renogram 2
- Fixed y-axis values in Renogram is not honoured
- GFR results table not displayed on flow tab
- Automatic regions are not deleted after performing motion correction on renogram
- Renogram post mict statics sync: ROIs move with image during sync when independent contour per bin is active
- Unable to apply the slope relative function analysis on a 2 phase dynamic dataset
- Patlak-values are not removed from result table when Blood ROI is removed
- Post mict values not shown in Renogram plot
- The autoROI feature does not detect a well-defined kidney

DMSA
- Pseudoplanar DMSA scan from StarGuide is not opened correctly in Classic DMSA, the manual does not state that the pixel and matrix size of the DMSA study must be square

SeHCAT
- SeHCAT calculation proceeds as normal with non-standard acquisition protocol is used

Parathyroid
- Subtraction slider in parathyroid does not work if you use mouse wheel or click on bar

Liver Remnant
- Liver Remnant Calculation is affected with SUV SPECT after using masking on gallbladder

Cardiac Splash
- Cardiac studies with same Frame Of Reference UID (GE MyoSpect 540) cannot be unlocked

Dosimetry

- Radiopharmaceutical is not always read from study header in Dosimetry
- Not able to load a created XML file with the reconstructed study when a long label is used for reconstructed study

BRASS

- BRASS with no template and MR study produces incorrect isocontour

Lung V/Q

- Lung VQ ratio does not account for different number of projections in Vent and Perf when performing subtraction/corrections

4 CONTACT INFORMATION

Contact any of the addresses below for service, support or if you have any other questions.

4.1 Manufacturer contact information

Head office
Hermes Medical Solutions AB
Strandbergsgatan 16
112 51 Stockholm
SWEDEN
Tel: +46 (0) 819 03 25
www.hermesmedical.com

General e-mail address:
info@hermesmedical.com

Support e-mail addresses:
support@hermesmedical.com
support.ca@hermesmedical.com
support.us@hermesmedical.com

4.2 Regulatory Representatives

UK Responsible Person
Hermes Medical Solutions Ltd
Cardinal House
46 St. Nicholas Street
Ipswich, IP1 1TT
England, United Kingdom

CH Authorized Representative CH REP
CMI-experts
Grellinger Str. 40
4052 Basel
Switzerland

Australian Sponsor
Cyclomedica Australia Pty Ltd
4/1 The Crescent,
Kingsgrove,
Sydney 2208
Australia

4.3 Subsidiaries

Hermes Medical Solutions Ltd
7-8 Henrietta Street
Covent Garden
London WC2E 8PS, UK
Tel: +44 (0) 20 7839 2513

Hermes Medical Solutions, Inc
2120 E. Fire Tower Rd, #107-197
Greenville, NC27858
USA
Tel: +1 (866) 437-6372

Hermes Medical Solutions Canada, Inc
1155, René-Lévesque O., Suite 2500
Montréal (QC) H3B 2K4
Canada
Tel: +1 (877) 666-5675
Fax: +1 (514) 288-1430

Hermes Medical Solutions Germany GmbH
Robertstraße 4
48282 Emsdetten
Deutschland
Tel: +46 (0)819 03 25