

# **Simplicit**<sup>90</sup>**Y** Personalized Dosimetry Software | KEY FEATURES

# Personalized Treatment Simplifying SIRT Workflow

Dosimetry planning is standardized and improves consistency, while post-treatment verification allows assessment of the absorbed dose delivered for each patient.



### **KEY FEATURES**

Offers a variety of tools and functions to help improve SIRT dosimetry workflow:

- Multimodal image fusion and registration
- Automated tools for liver segmentation (CT, MRI & CBCT)
- Intuitive LSF calculation tools
- Dosimetric estimates with one-compartment, multi-compartment, and voxel-wise techniques
- Pre- and post-treatment dosimetry
- Vial selector feature allows you to populate the TheraSphere™ order form directly from the software
- Ability to both import and export contours as DICOM RTSS objects
- Saves data and generates comprehensive reports

## **NEW FEATURES FOR Simplicit<sup>90</sup>Y 2.6**

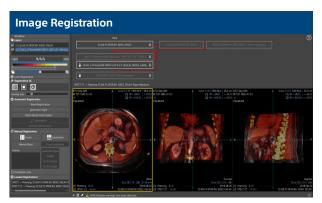
- Updated lung dose tracking for advanced Lung Shunt Calculation
- Ability to load multiple CBCT's into one session
- Calculate normal tissue volume in case of multiple tumors
- Vertical monitor display option
- TheraSphere PDF order form incorporated to allow you to populate, save and use with your standard ordering process

# **Personalized Dosimetry**

Simplicit<sup>90</sup>Y is a comprehensive software solution for dosimetry planning, allowing you to:

### **Enhance Consistency And Efficiency**

Simplicit<sup>90</sup>Y allows you to easily incorporate multimodal images with a range of high-performance registration tools, all with one common interface. Coupled with automated and semi-automated tools for segmentation, this reduces inter-user variability and improves dosimetry consistency and planning confidence.



High performance rigid and deformable image registration

# **Simplicit**<sup>90</sup>**Y**<sup>™</sup> Personalized Dosimetry Software | KEY FEATURES

### **Analyze with Ease**

Manipulate your data and expedite analysis with tools for the following:

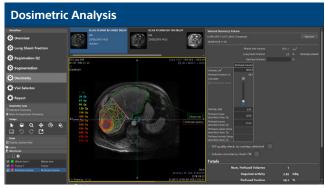
- Image-based (2D, 3D) dosimetry assessment
- Rapid LSF calculation
- Advanced image registration quality control tools

### **Confirm Y-90 Treatment Quality**

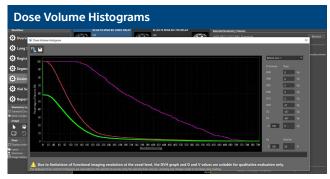
Simplicit<sup>90</sup>Y provides the capability to visualize prospective dose distribution and assess the absorbed dose delivered to structures of interest. By allowing for pre- and post-treatment dosimetry, this software can help determine the effectiveness of a patient's Y-90 SIRT with confidence.

### **Personalize Dosimetry**

Simplicit<sup>90</sup>Y can be used to interactively tailor the absorbed dose per perfused volume by adjusting the injected activity. The software tools can be customized to a patient's specific tumor presentation and anatomy.



View absorbed dose distribution with isodose contour line display



Show heterogeneity of absorbed dose distribution in critical structures, and assess tumor coverage

#### Intended Use (US Only)

Simplicit<sup>®0</sup>Y™ is intended to be used by trained medical professionals for TheraSohere™ pre-treatment dosimetry planning and post-treatment dosimetry evaluation following Y90 treatment. Simplicit<sup>®0</sup>Y is a medical image and information management system that is intended to receive, transmit, store, retrieve, display and process digital medical images, as well as create, display and print reports from those images. The medical modalities of these medical imaging systems include, but are not limited to, CT, MRI, SPECT and PET. Simplicit90Y provides the user with the means to display, register and fuse medical images from multiple modalities. Simplicit90Y provides tools to create, transform, and modify contours for the user to define objects in medical image volumes for use in TheraSphere pre-treatment dosimetry planning and for post-treatment dosimetry. The objects include, but are not limited to, tumors and normal tissues. For post-Yttnum-90 (Y90) treatment, Simplicit<sup>20</sup>Y should only be used for the retrospective determination of dose and should not be used to prospectively calculate dose or for the case where there is a need for retreatment using Y90 microspheres.

#### Indication for Use (US Only)

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Simpliciti\*\*(") is a standalone software device that is used by trained medical professionals as a tool to aid in evaluation and information management of digital medical images. Simplicit\*\*(") supports the reading, rendering and display of a range of DICOM compliant imaging and related formats including but not limited to CT, PT, NM, SPECT, MR, SC, RTSS. Simplicit\*\*(") enables the saving of sessions in a proprietary format as well as the export of formats including CSV and PDF files. Simplicit\*\*(") is indicated, as an accessory to TheraSphere, be labeling. Simplicit\*(") or provide pre-treatment dosimetry planning support including Lung Shunt Fraction and most provide pre-treatment dosimetry planning support including Lung Shunt Fraction and most provide pre-treatment dosimetry in a coronance with TheraSphere labeling. Simplicit\*(") is indicated for post-treatment and most provide pre-treatment dosimetry and evaluation following Yttium-90 (Y-90) universophere teatment is implicated for post-treatment of sometry and evaluation following Yttium-90 (Y-90) universophere treatment is implicated for registration, fusion display and review of medical images and eview of medical images allowing medical professionals to incorporate images, such as CT, MRI, PET, CBCT and SPECT in TheraSphere Yttium-90 (Y-90) universophere per-treatment planning and post-Y-90 treatment calculation and evaluation. The objects include, but are not limited to, tumors and normal tissues, and liver volumes. Simplicit\*("is indicated for registration, fusion display and review of medical images allowing medical professionals to incorporate images, such as CT, MRI, PET, CBCT and SPECT in TheraSphere Yttium-90 (Y-90) universophere per-treatment planning and post-Y-90 treatment evaluation for post-Yttium-90 (Y-90) universopheres. PI-994110-AA

#### TheraSphere™ Yttrium-90 Glass Microspheres

TheraSphere 'Ytrium-90 Glass Microspheres

INDICATION FOR USE: TheraSphere is indicated for use as selective internal radiation therapy (SIRT) for local tumor control of solitary tumors (1-8 cm in diameter), in patients with unresectable hepatocellular carcinoma (HCC), Child-Pugh Score A cirrhosis, well-compensated liver function, no macrovascular invasion, and good performance status. CONTRAINDICATIONS: TheraSphere is contraindicated in patients: whose E-99m macroaggregated albumin (IMAA) hepatic arterial perfusions scintigraphy shows any deposition to the gastrointestinal tract that may not be corrected by angiographic techniques • who show shunting of blood to the lungs that could result in delivery of greater than 18 of m (Clos GBap) (7-90 to the lungs, and adiation pneumonitis has been seen ratery in patients receiving doses to the lungs greater than 30 Gy in a single treatment. • in whom hepatic artery catheterization is contraindicated, such as patients with vascular abnormalities or bleeding diathesis • who have pulmonary insufficiency (conventionally defined by an arterial oxygen pressure (Pa,O2) of < 90% or 90% or 90% of 90% of 90% on the PVT seen on the Tc-99m MAA imaging with >70% tumor replacement in the liver • with comorbidities or poor overall health (e.g., ECOS performance status status) as a policy of 90% o INDICATION FOR USE: TheraSphere is indicated for use as selective internal radiation therapy (SIRT) for local tumor control of solitary tumors (1-8 cm in diameter), in patients with unresectable hepatocellular side effects usually occur within the first 4 to 6 weeks after treatment. Based on clinical trial data, literature reviews and post market surveillance, adverse events potentially associated with treatment using Y-90 microsphere, including TheraSphere may include the following: Allergic reaction • Altered inverfunction, acute from ic • Anorexis • Anveiev • Ascistes • Bile Duct injury • Bleeding/hemorrhage • Chills / rigors • Cholecystitis (Inflammatory or Infections) • Colitis • Death • Dehydration • Diarrhea • Dizziness • Dyspnea • Edema (any location) • Electrolyte abnormalities • Elevated BUN/creatinine • Fall • Fatigue • Fever • Gastrointestinal bleeding / hemorrhage • Gastrointes TheraSphere is a registered trademark of Theragenics Corporation used under license by Biocompatibles UK Ltd. Simplicit<sup>20</sup>Y is developed by Mirada Medical Ltd. and used under license by Biocompatibles UK Ltd. Boston Scientific is the sales agent for Simplicit<sup>20</sup>Y. All other trademarks are property of their respective owners.

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