

# SurePlan LiverY90 key features

- ✓ Voxel-based MAA dosimetry
- ✓ Timesaving tools for liver, lungs, and tumor VOI generation
- ✓ Divide liver into lobes or segments
- ✓ Calculate liver-lung shunt fraction
- ✓ Multi-modality rigid and deformable fusion
- ✓ Post-op dosimetry for Y90-PET and SPECT
- ✓ Integrated custom reporting tools
- ✓ RECIST and PERCIST tools

# INS<sup>Y-90</sup>TE with SurePlan LiverY90 features



- **Unique subscription offering the full SurePlan LiverY90 software**
  - 2 concurrent annual licenses of MIM SurePlan™ LiverY90
  - All applicable software upgrades and updates for life of the subscription
- **Full service for implementation, training and ongoing support** provided by MIM
  - 2 consecutive days of onsite training by MIM
  - Web training sessions
  - Access to MIM training portal
- **Expert technical services provided by MIM**

### Reference

1. Horvat M, Nelson AS, Pirozzi SD. Time savings of a multi-atlas approach for liver segmentation. *J Nucl Med* 2014; **55**(Suppl 1):1523.

**Manufacturer**  
 Sirtex Medical Pty Ltd  
 Shop 6, 207 Pacific Highway  
 St Leonards, NSW 2065  
 Australia  
 Tel: +61 2 9964 8400  
 Fax: +61 2 9964 8410

**Europe, Middle East & Africa**  
 Sirtex Medical Europe GmbH  
 Joseph-Schumpeter-Allee 33  
 53227 Bonn  
 Germany  
 Tel: +49 228 1840 730

**www.sirtex.com**  
 @SirtexMedical  
 company/sirtex-medical-limited

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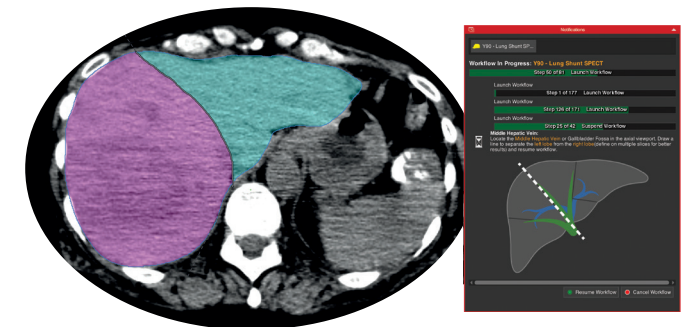


# INS<sup>Y-90</sup>TE

The power of knowing

with SurePlan LiverY90

## Confidence in Delivery for Timely Patient Care



**Voxel-based MAA dosimetry now available\***



Advancing to the next level.



To find out more, visit  
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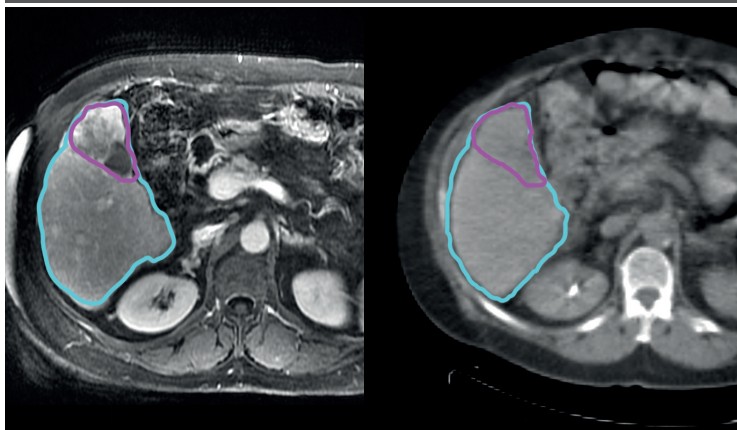
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# Timesaving tools

MIM SurePlan LiverY90 provides timesaving tools for

- MAA dose planning\*
- liver and tumor segmentation
- deformable registration
- post-treatment dosimetry using Y90-PET and Bremsstrahlung SPECT

## MR/CT Fusion



## Fast treatment process with timesaving tools

- **Offers semi-automated contouring tools**
  - Dynamic paint brush and Contour Co-Pilot™, actively learn from the user as they contour regions of interest
- **Quickly generate liver Volumes of Interest (VOI) in 10 minutes or less**
  - a 70%-time reduction compared to manual segmentation<sup>1</sup>
  - Zero-click, automated contouring of the total liver that processes when the CT arrives
  - Easily divide liver into lobes or segments to determine target region volumes
- **Provides Planar and SPECT/CT lung shunt calculations**

# Pre-Treatment

Allows for improved decision accuracy by incorporating multiple imaging modalities

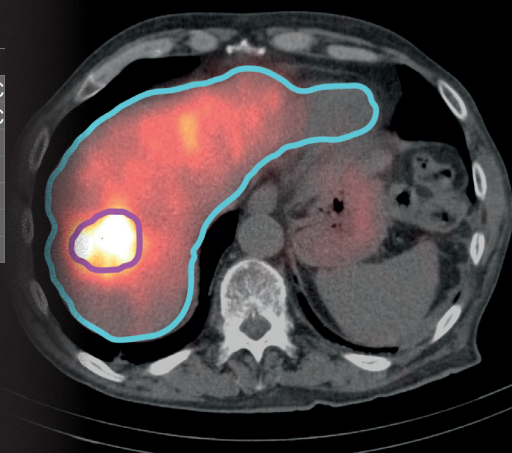
- Multiple modality image fusion is available allowing comparison of PET, SPECT, CT, MRI and Cone Beam CT
- Deformable image registration included for cases where there are differences in positioning, size, and organ movement
- Dictated text can be pulled into reports and exported to PDF or DICOM structure reports

## MAA Dose Planning\*

- **Use MAA images for planning therapies to predict Y90 doses**
  - with voxel-based dosimetry
  - and model-based formulas (Partition Model, BSA, and MIRD single-compartment)

## Target Region Statistics

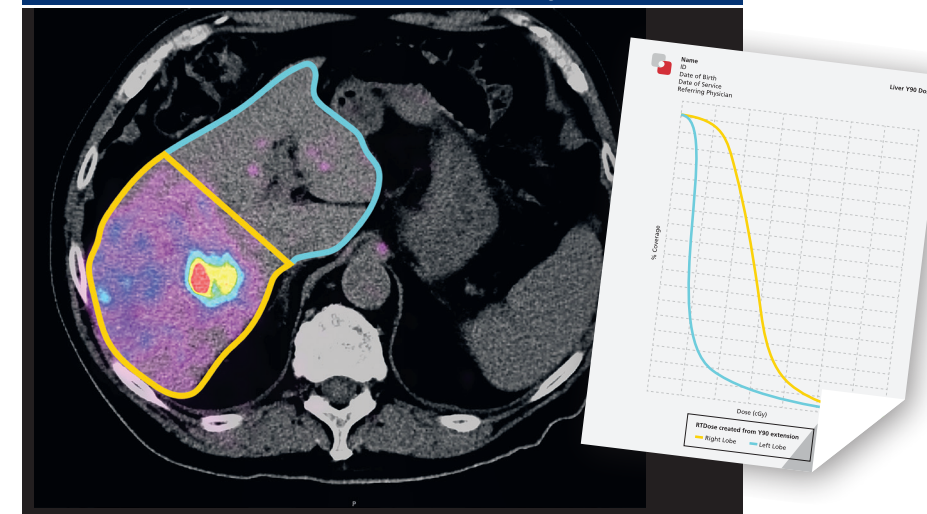
Target Region Statistics	
Volume of Target Region =	1642.2CC
Volume of Tumor in Target Region =	197.8 CC
Percent Tumor Involvement =	12 %
Total Tumor TNR =	2.7 :1
TNR Tumor 1 =	3.8 :1
TNR Tumor 2 =	3.7 :1
TNR Tumor 3 =	2.6 :1



\* MAA Dosimetry for SurePlan LiverY90 is approved for sale in the EU. However, it is not commercially available in all countries. Please contact your MIM representative for more information

# Post-Y-90 Dosimetry

## Y-90 Post-Treatment Dosimetry



The **2013/59/EURATOM Council Directive** specifies the need to verify delivered doses from radiation treatments.

SurePlan provides tools for Yttrium-90 microsphere post-treatment dose calculation using Y90-PET and Bremsstrahlung SPECT.

## Post-therapy dosimetry designed to enable immediate quantitative feedback

- **Create information-rich reports with dosimetry and therapy response information**
  - Confirmation of absorbed dose and spheres distribution
  - Calculates isodose curves / Dose Volume Histogram on PET/ SPECT using Local Disposition Method or MIRD Kernel
- **Ability to save RTdose files: Combine Y-90 dose with dose from other treatments such as external beam radiation therapy**
- **Real-time response to communicate with referring physician and patient**