

Image Reconstruction

1. Siman W, Mikell JK, & Kappadath SC. Practical reconstruction protocol for quantitative 90Y bremsstrahlung SPECT/CT. *Med Phys* 2016; 43(9):5093-5103. <https://doi.org/10.1118/1.4960629>
2. Willowson KP, Tapner M, Bailey DL, et al. A multicentre comparison of quantitative 90Y PET/CT for dosimetric purposes after radioembolization with resin microspheres. *Eur J Nucl Med Mol Imaging* 2015; 42:1202-1222. <https://doi.org/10.1007/s00259-015-3059-9>

Post-Op Y90 Voxel-Based Dosimetry: SPECT

1. Balagopal A & Kappadath SC. Characterization of 90Y-SPECT/CT self-calibration approaches on the quantification of voxel-level absorbed doses following 90Y-microsphere selective internal radiation therapy. *Med Phys* 2018; 45(2):875-883. <https://doi.org/10.1002/mp.12695>
2. Nelson AS, Swallen A, Arpidone M, et al. Dosimetry for Yttrium-90 Microsphere Brachytherapy (White Paper).
3. Nelson AS, Swallen A, & Dewaraja YK. Evaluation of a voxel-based yttrium-90 (Y-90) dose calculation method for Bremsstrahlung SPECT using a liver phantom. *J Nucl Med* 2016; 57(Suppl 2):306 (Oral Presentation at SNMMI 2016). http://jnm.snmjournals.org/content/57/supplement_2/306
4. Mikell JK, Mahvash A, Siman W, et al. Comparing voxel-based absorbed dosimetry methods in tumors, liver, lung, and at the liver-lung interface for 90Y microsphere selective internal radiation therapy. *EJNMMI Physics* 2015; 2(16). <https://doi.org/10.1186/s40658-015-0119-y>
5. Mikell JK, Mahvash A, Siman W, et al. Selective Internal Radiation Therapy With Yttrium-90 Glass Microspheres: Biases and Uncertainties in Absorbed Dose Calculations Between Clinical Dosimetry Models. *Int J Radiation Oncol Biol Phys* 2016; 96(4):888-896. <https://doi.org/10.1016/j.ijrobp.2016.07.021>
6. Kappadath SC, Mikell J, Balagopal A, et al. Hepatocellular Carcinoma Tumor Dose Response After 90Y-radioembolization With Glass Microspheres Using 90Y-SPECT/CT-Based Voxel Dosimetry. *Int J Radiation Oncol Biol Phys* 2018; 102(2): 451-461. <https://doi.org/10.1016/j.ijrobp.2018.05.062>
7. Nezami N, Kokabi N, Camacho JC, et al. Y90 radioembolization dosimetry using a simple semi-quantitative method in intrahepatic cholangiocarcinoma: Glass versus resin microspheres. *Nuc Med Biol* 2018; 59:22-28. <https://doi.org/10.1016/j.nucmedbio.2018.01.001>
8. Kokabi N, Galt JR, Xing M, et al. A Simple Method for Estimating Dose Delivered to Hepatocellular Carcinoma after Yttrium-90 Glass-Based Radioembolization Therapy: Preliminary Results of a Proof of Concept Study. *J Vasc Interv Radiol* 2014; 25(2):277-287. <https://doi.org/10.1016/j.jvir.2013.11.007>

Post-Op Y90 Voxel-Based Dosimetry: PET

1. Maughan NM, Garcia-Ramirez J, Arpidone M, et al. Validation of Post-Treatment PET-Based Dosimetry Software for Hepatic Radioembolization of Yttrium-90 Microspheres. *Med Phys* 2019; 46(5):2394-2402.
<https://doi.org/10.1002/mp.13444>
2. Nelson AS, Swallen A, Arpidone M, et al. Dosimetry for Yttrium-90 Microsphere Brachytherapy (White Paper).
3. Nelson AS, Swallen A, & Dewaraja YK. Evaluation of voxel-based yttrium-90 (Y-90) dose calculation methods for Y-90 PET using a liver phantom. *J Nucl Med* 2016; 57(Suppl 2):1424.
http://jnm.snmjournals.org/content/57/supplement_2/1424
4. Srinivas SM, Natarajan N, Kuroiwa J, et al. Determination of radiation absorbed dose to primary liver tumors and normal liver tissue using post-radioembolization 90Y PET. *Front Oncol* 2014; 4(255).
<https://doi.org/10.3389/fonc.2014.00255>
5. Fowler KJ, Maughan NM, Laforest R, et al. PET/MRI of Hepatic 90Y Microsphere Deposition Determines Individual Tumor Response. *Cardiovasc Intervent Radiol* 2016; 39:855-864.
<https://doi.org/10.1007/s00270-015-1285-y>

Liver Segmentation

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.
http://jnm.snmjournals.org/content/55/supplement_1/1523
2. Horvat M, Nelson AS, Piper JW, et al. Time Savings for Liver Volume Generation: Comparison of Manual and Deformable Segmentation Methods. *J Nucl Med* 2012; 53(Suppl 1):2264.
http://jnm.snmjournals.org/content/53/supplement_1/2264

Lung Shunt

1. Allred JD, Niedbala J, Mikell JK, et al. The value of 99m-Tc-MAA SPECT-CT for lung shunt estimation in 90Y radioembolization: a phantom and patient study. *EJNMMI Research* 2018; 8(50).
<https://doi.org/10.1186/s13550-018-0402-8>
2. Yu N, Srinivas SM, DiFilippo FP, et al. Lung Dose Calculation With SPECT/CT for 90Yttrium Radioembolization of Liver Cancer. *Int J Radiation Oncol Biol Phys* 2012; 85(3):834-839.
<https://doi.org/10.1016/j.ijrobp.2012.06.051>

Deformable Registration

1. Lamba N, Kruger A, Pirozzi S, et al. Evaluation of an Intensity-based Deformable Registration Algorithm for the Generation of Liver Volumes on Post Y90 PET/CT (Oral Presentation at AAPM 2018).
<https://w3.aapm.org/meetings/2018AM/programInfo/programAbs.php?t=all&sid=7602&aid=40939>
2. Nelson AS, Duchateau M, Piper JW, et al. Evaluation of a Free-Form Intensity Based Deformable Registration Method Using the POPI Model. *Med Phys* 2014; 41:202.
<https://doi.org/10.1118/1.4888251>
3. Pirozzi S, Piper JW, Nelson AS, et al. A Novel Framework for User-Intervened Correction of Deformable Registration. *Int J Radiation Oncol Biol Phys* 2013; 87(2):S144.
<https://doi.org/10.1016/j.ijrobp.2013.06.372>