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Manuscript Type: ORIGINAL ARTICLE

Observational Study

Same day Y90 radioembolization with SPECT/CT: An opportunity to improve care during the COVID-19 pandemic and beyond

Elsayed M *et al.* Same day Y90 during the COVID-19 pandemic

Mohammad Elsayed, Mohammad Loya, James Galt, David M Schuster, Zachary L Bercu, Janice Newsome, David Brandon, Sonia Benenati, Keywan Behbahani, Richard Duszak, Ila Sethi, Nima Kokabi

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1 **Crossref** 16 words
Mohammad Elsayed, Bernard Cheng, Minzhi Xing, Ila Sethi
et al. "Comparison of Tc-99m MAA Planar Versus SPECT/C" **<1%**



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90Y Radioembolization: Multimodality Imaging Pattern ...

<https://pubs.rsna.org/doi/full/10.1148/rg.2015140314>

In the appropriate clinical scenario, 90 Y **radioembolization** is a safe and effective therapy **for patients** presenting with primary and metastatic **liver cancer** (1–5). Several prospective randomized controlled trials are under way to assess, in comparison with other therapies, the clinical efficacies and benefits of administering intra-arterial brachytherapy in combination with other therapies ...

Cited by: 12

Author: Juan C. Camacho, Valeria Moncayo, Nima ...

Publish Year: 2015

Radioembolization and the Dynamic Role of 90Y PET/CT

<https://www.frontiersin.org/articles/10.3389/fonc.2014.00038> ▾

Before the advent of tomographic imaging, it was postulated that decay of 90 Y to the 0+ **excited** state of 90Zr may result in emission of a positron–electron pair. While the branching ratio for pair-production is small ($\sim 32 \times 10^{-6}$), PET has been successfully used to image 90 Y in numerous recent **patients** and phantom studies. 90 Y PET imaging has been performed on a variety of PET/CT ...

Cited by: 69

Author: Alexander S Pasciak, Alexander S Pasciak, ...

Publish Year: 2014

Radioembolization and the Dynamic Role of 90Y PET/CT ...

europepmc.org/articles/PMC3936249

Before the advent of tomographic imaging, it was postulated that decay of 90 Y to the 0 + excited state of 90 Zr may result in emission of a positron–electron pair. While the branching ratio for pair-production is small ($\sim 32 \times 10^{-6}$), PET has been successfully used to image 90 Y in numerous recent **patients** and phantom studies. 90 Y PET imaging has been performed on a variety of PET/CT ...

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[What's New in Y-90? - Endovascular Today](#)

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Y-90 TARE has been historically considered a palliative therapy option for patients with unresectable liver malignancies deemed unsuitable for other locoregional therapies; however, more recent publications have explored the prospect of developing TARE techniques with curative intent. Radiation segmentectomy delivers enough radiation to ablate an entire vascular territory, resulting in radionecrosis of tumor and liver tissue, analogous to surgical resection.⁶Administering this ablative dose can thus de...

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[90Y Radioembolization: Multimodality Imaging Pattern ...](#)

<https://pubs.rsna.org/doi/full/10.1148/rg.2015140314>

Jul 31, 2015 · What Is 90 Y?. 90 Y is the decay product of strontium 90 or may be produced by neutron bombardment of yttrium 89 (). 90 Y is a pure beta-particle emitter, which decays to stable zirconium 90 (90 Zr) and has a physical half-life of 64.1 hours (2.67 days) (). The average energy of beta-particle emissions is approximately 0.94 MeV ().

Cited by: 12**Author:** Juan C. Camacho, Valeria Moncayo, Nima ...**Publish Year:** 2015

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yttrium 90: Topics by Science.gov

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Yttrium-90 (^{90}Y) is a beta particle nuclide used in targeted radionuclide therapy which is available to both **single-photon emission computed tomography** (SPECT) and time-of-flight (TOF) positron **emission tomography** (PET) imaging.

A Dual-layer Detector for Simultaneous Fluoroscopic and ...

<https://pubs.rsna.org/doi/10.1148/radiol.2018180796>

Jan 08, 2019 · This would make the procedure more time efficient and would allow for **1-day radioembolization** procedures (7,8). ... Interventional positron **emission tomography/computed tomography**: ... Outpatient **single-session yttrium-90** glass microsphere **radioembolization**.

Cited by: 10

Author: Sandra van der Velden, Britt Kunnen, Wilco ...

Publish Year: 2019

Radioembolization and the Dynamic Role of ^{90}Y PET/CT ...

europepmc.org/articles/PMC3936249

Before the advent of tomographic imaging, it was postulated that decay of ^{90}Y to the $0+$ excited state of ^{90}Zr may result in **emission** of a positron–electron pair. While the branching ratio for pair-production is small ($\sim 32 \times 10^{-6}$), PET has been successfully used to image ^{90}Y in numerous recent patients and phantom studies. ^{90}Y PET imaging has been performed on a variety of PET/CT ...

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Radioembolization is based on the administration of radioactive compounds, such as ^{131}I -iodine-labeled Lipiodol or microspheres containing **yttrium-90** (^{90}Y), the latter being the more widely used isotope for the treatment of liver cancers (Raoul et al., 1997; Salem et al., 2013).

Cited by: 9

Author: Nils Degrauwe, Arnaud Hocquet, Antonia ...

Publish Year: 2019

Frontiers | Radioembolization and the Dynamic Role of ^{90}Y ...

<https://www.frontiersin.org/articles/10.3389/fonc.2014.00038> ▾

Before the advent of tomographic imaging, it was postulated that decay of ^{90}Y to the $0+$ excited state of ^{90}Zr may result in **emission** of a positron–electron pair. While the branching ratio for pair-production is