

**Name of Journal:** *World Journal of Gastrointestinal Oncology*

**Manuscript NO:** 61252

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

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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

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## 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](http://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 ...

Same Day Y90 Radioembolization with SPECT/CT: An Opportunity t



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## What's New in Y-90? - Endovascular Today

<https://evtoday.com/articles/2019-oct/whats-new-in-y-90>



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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.<sup>6</sup>Administering this ablative dose can thus de...

See more on [evtoday.com](https://evtoday.com)

## 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

<https://www.science.gov/topicpages/y/yttrium+90> ▾

**Yttrium-90** (  $^{90}\text{Y}$  ) 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 $^{90}\text{Y}$ PET/CT ...

[europepmc.org/articles/PMC3936249](http://europepmc.org/articles/PMC3936249)

Before the advent of tomographic imaging, it was postulated that decay of  $^{90}\text{Y}$  to the  $0^+$  excited state of  $^{90}\text{Zr}$  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  $^{90}\text{Y}$  in numerous recent patients and phantom studies.  $^{90}\text{Y}$  PET imaging has been performed on a variety of PET/CT ...

## Theranostics in Interventional Oncology: Versatile ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6521126>

**Radioembolization** is based on the administration of radioactive compounds, such as  $^{131}\text{I}$ -iodine-labeled Lipiodol or microspheres containing **yttrium-90** ( $^{90}\text{Y}$ ), 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 $^{90}\text{Y}$ ...

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

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