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Poly(L-lactic acid) microspheres loaded with holmium-166 acetylacetonate (166 Ho-PLLA-MS) are a novel microdevice for intra-arterial radioembolization in patients with unresectable liver malignancies. The neutron activation in a nuclear reactor, in particular the gamma heating, damages the 166 Ho-PLLA-MS. The degree of damage is dependent on the irradiation characteristics and ...

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Author: M. A. D. Vente, J. F. W. Nijssen, R. de Ro...

Publish Year: 2009

[166Ho]-Loaded poly(L-lactic acid) microspheres ...

<https://www.ncbi.nlm.nih.gov/books/NBK47330>

Aug 19, 2010 · Hepatic metastases often occur in individuals having breast, colorectal, or neuroendocrine neoplastic tumors and usually indicate a poor prognosis for the patient (1). Radiotherapy or partial hepatectomy are often used for the treatment or removal of the hepatic tumors, respectively, but only 20%–30% of patients are eligible for these procedures because large or widespread lesions ...

Author: Arvind Chopra

Publish Year: 2010

Author: Arvind Chopra

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<https://link.springer.com/content/pdf/10.1007/s10544-009-9291-y.pdf>

normal liver and liver tumors. The normal liver is supplied by both the hepatic artery and (mainly) the portal vein, whereas liver tumors derive their blood uniquely from the hepatic artery (Bierman et al. 1951). Apart from these 90Y microspheres, holmium-166 loaded poly(L-lactic acid) microspheres (166Ho-PLLA-MS) are

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Author: M. A. D. Vente, J. F. W. Nijssen, R. de Ro...

Publish Year: 2009

Neutron activation of holmium poly(L-lactic acid ...

<https://link.springer.com/article/10.1007/s10544-009-9291-y> ▾

Feb 25, 2009 · Abstract. Poly(L-lactic acid) microspheres loaded with holmium-166 acetylacetonate (166 Ho-PLLA-MS) are a novel microdevice for intra-arterial radioembolization in patients with unresectable liver malignancies. The neutron activation in a nuclear reactor, in particular the gamma heating, damages the 166 Ho-PLLA-MS. The degree of damage is dependent on the irradiation ...

Cited by: 25

Author: M. A. D. Vente, J. F. W. Nijssen, R. de Ro...



Name of Journal: *World Journal of Experimental Medicine*
Manuscript NO: 52180
Manuscript Type: ORIGINAL ARTICLE

Basic Study
Neutron-activated biodegradable samarium-153 acetylactonate-poly-L-lactic acid microspheres for intraarterial radioembolization of hepatic tumors

Abstract
BACKGROUND
Liver cancer is the 6th most common cancer in the world and the 4th most common death from cancer worldwide. Hepatic radioembolization is a minimally invasive treatment involving intraarterial administration of radioembolic microspheres.

AIM
To develop a neutron-activated, biodegradable and theranostics samarium-153

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Samarium-153 (153 Sm) **styrene divinylbenzene microparticles** were developed as a surrogate for **Yttrium-90** (90 Y) microspheres in liver radioembolization therapy. Unlike the pure **beta emitter 90 Y**, 153 Sm possess both therapeutic beta and diagnostic gamma radiations, making it possible for post-procedure imaging following therapy.

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Author: Nurul Ab. Aziz Hashikin, Chai-Hong Yeon...

Publish Year: 2015

(PDF) Neutron Activated Samarium-153 Microparticles for ...

https://www.researchgate.net/publication/282043998_Neutron_Activated_Samarium-153...

Introduction: **Samarium-153** (153Sm) **styrene divinylbenzene microparticles** were developed as a surrogate for **Yttrium-90** (90Y) microspheres in liver radioembolization therapy.

Neutron Activated Samarium-153 Microparticles for ...

<https://paperity.org/p/74146795/neutron-activated-samarium-153-microparticles-for...>

Introduction **Samarium-153** (153Sm) **styrene divinylbenzene microparticles** were developed as a surrogate for **Yttrium-90** (90Y) microspheres in liver radioembolization therapy. Unlike the pure beta emitter 90Y, 153Sm possess both therapeutic beta and diagnostic gamma radiations, making it possible for post-procedure imaging following therapy.

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Author: Nurul Ab. Aziz Hashikin, Chai-Hong Yeon...

Publish Year: 2015

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Neutron Activated Samarium-153 Microparticles for ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4575131>

Introduction. **Samarium-153** (^{153}Sm) styrene divinylbenzene microparticles were developed as a surrogate for Yttrium-90 (^{90}Y) **microspheres** in liver **radioembolization** therapy. Unlike the pure beta emitter ^{90}Y , ^{153}Sm possess both therapeutic beta and diagnostic gamma radiations, making it possible for post-procedure imaging following therapy.

Cited by: 2**Author:** Nurul Ab. Aziz Hashikin, Chai-Hong Yeon...**Publish Year:** 2015

Preparation and In Vitro Evaluation of Neutron-Activated ...

<https://www.mdpi.com/1999-4923/11/11/596/htm> ▾

In this study, **neutron activated**, ^{153}Sm -labeled **microspheres** were developed as an alternative to ^{90}Y -labeled **microspheres** for **hepatic radioembolization**. ^{153}Sm has a theranostic advantage as it emits both therapeutic beta and diagnostic gamma radiations ...

Author: Yin How Wong, Hun Yee Tan, Azahari...**Publish Year:** 2019

(PDF) Neutron Activated Samarium-153 Microparticles for ...

https://www.researchgate.net/publication/282043998_Neutron_Activated_Samarium_153