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Clinical studies were performed with 68Ga-DOTA, Tyr3-octreotide, localizing neuroendocrine tumors with higher sensitivity than 111In- diethylenetriaminepentaacetic acid-octreotide. In this study 68Ga-DOTANOC/DOTATOC was prepared using inhouse 68Ge/68Ga generator and radiation exposure was measured to nuclear medicine staff during handling the generator.

68Ga-DOTATOC/DOTANOC: synthesis and dosimetry: PREPARATION ...

A fully automated synthesis for the preparation of 68Ga-labelled peptides. The system described allows the fully automated, efficient and rapid preparation of Ga-DOTA-derivatized peptides. It has been used successfully and reliably for routine

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A fully automated synthesis for the preparation of 68Ga

...

Ga 68 DOTATOC Injection is a radioactive diagnostic agent for intravenous administration. It contains 3.6 mcg/mL (DOTA-0-Phe1-Tyr3) octreotide, 18.5 MBq/mL to 148 MBq/mL (0.5 mCi to 4 mCi/mL) of Ga 68 DOTATOC at calibration time, and ethanol (10% v/v) in sodium chloride (9 mg/mL) solution (approximately 14 mL volume).

GA-68-DOTATOC - FDA prescribing information, side effects ...

Labeling of DOTANOC and DOTATATE with 68 Ga was standardized using a fully automated synthesis device. PET/CT findings were compared with 3-phase CT scans and in some patients with MR imaging, 18 F-FDG PET/CT, and histology.

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Comparison of 68Ga-DOTANOC and 68Ga-DOTATATE PET/CT Within ...

Comprehensive Quality Control of the ITG 68Ge/68Ga Generator and Synthesis of 68Ga-DOTATOC and 68Ga-PSMA-HBED-CC for Clinical Imaging. The GMP-certified (68)Ge/(68)Ga generator system was studied for a year.

Comprehensive Quality Control of the ITG 68Ge/68Ga ...

68Ga-DOTATOC versus 68Ga-DOTATATE PET/CT in functional imaging of neuroendocrine tumors J Nucl Med. 2011 Dec;52(12):1864-70. doi: 10.2967/jnumed.111.091165. Epub 2011 Nov 9. Authors Thorsten D Poeppel 1 ...

68Ga-DOTATOC versus 68Ga-DOTATATE PET/CT in functional ...

Current sst analogues for PET/CT diagnostics include 68 Ga-

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DOTATOC, 68 Ga-DOTANOC, and 68 Ga-DOTATATE all of which bind to sstr2, predominantly expressed in neuroendocrine tumors (NET). 14 The SUVmax of 68 Ga-DOTATOC PET/CT scans tended to be higher than in 68 Ga-DOTATATE counterparts for detection of NET. 15,16 Beside NET, overexpression of ...

Gallium-68 DOTATOC PET/CT In Vivo Characterization of

...

Although patient-based sensitivity was the same for 64 Cu-DOTATATE and 68 Ga-DOTATOC in this cohort, significantly more lesions were detected by 64 Cu-DOTATATE. Furthermore, the shelf life of more than 24 h and the scanning window of at least 3 h make 64 Cu-DOTATATE favorable and easy to use in the clinical setting.

Head-to-Head Comparison of 64 Cu-DOTATATE and 68 Ga

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breviated as DOTATATE (GaTate), DOTATOC (GaToc), and DOTANOC (GaNoc) (Table 1). The clinical choice of a particular analog is often driven by local availability, with studies demonstrating only subtle differences in clinical utility (7). We have chosen to primarily use 68Ga-DOTA-TATE (GaTate), since it has the highest affinity

Somatostatin Receptor Imaging with 68Ga DOTATATE PET/CT ...

Gallium 68 (68 Ga)

1,4,7,10-tetraazacyclododecane-1,4,7,10-tetraacetic acid (DOTA)-octreotate (DOTATATE, GaTate) positron emission tomography (PET)/computed tomography (CT) is an imaging technique for detecting and characterizing neuroendocrine tumors (NETs). GaTate, a somatostatin analog, has recently been accorded orphan drug status by the U.S. Food and Drug Administration, thereby ...

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Somatostatin Receptor Imaging with 68Ga DOTATATE PET/CT ...

68Ga-DOTATOC was synthesized using an automated 68Ge/68Ga generator (IGG100; Eckert & Ziegler) coupled with a ModularLab PharmTracer synthesis module (Eckert & Ziegler) as previously described (9-12).

Localization of Unknown Primary Site with 68Ga- DOTATOC PET ...

In conclusion, the synthesis with modular automated system resulted to reliably produce 68Ga-DOTANOC, with limited if any user intervention. 68Ge content in the final formulation results lower than $2 \times 10^{-7}\%$, avoiding unjustified patient irradiation due to radionuclidic impurities and satisfying quality prerequisites for radiopharmaceutical preparations.

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...

Dotatate gallium (Ga-68) is a somatostatin-2 receptor analog which is radiolabeled with gallium 68 as a positron-emitting radioisotope. Ga-68 dotatate has a high affinity for somatostatin-2 receptor and it is rapidly excreted from the nontarget sites which gives it an ideal candidate for imaging neuroendocrine tumors. Dotatate gallium (Ga-68) exploits its ability to detect somatostatin receptor ...

Dotatate gallium Ga-68 | C65H87GaN14O19S2 - PubChem
(68)Ga labeled radiopharmaceuticals, like (68)Ga-DOATNOC and other similar peptides, are gaining relevance in PET-CT, thanks to relatively easy local generator production, that do not requires an...

Generator Breakthrough and Radionuclidic Purification in

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Clinical studies were performed with ^{68}Ga -DOTA, Tyr3-octreotide, localizing neuroendocrine tumors with higher sensitivity than ^{111}In - diethylenetriaminepentaacetic acid-octreotide. In this study ^{68}Ga -DOTANOC/DOTATOC was prepared using inhouse $^{68}\text{Ge}/^{68}\text{Ga}$ generator and radiation exposure was measured to nuclear medicine staff during handling the generator.

Buy 68ga-Dotatoc/Dotanoc: Synthesis and Dosimetry Book ...

Scopri ^{68}Ga -DOTATOC/DOTANOC: synthesis and dosimetry: PREPARATION OF ^{68}Ga -DOTA-TOC/-NOC FROM $^{68}\text{Ge}/^{68}\text{Ga}$ GENERATOR AND THE RADIATION EXPOSURE TO NUCLEAR MEDICINE STAFF DURING HANDLING $^{68}\text{Ge}/^{68}\text{Ga}$ GENERATOR di Dwivedi, Durgesh Kumar: spedizione gratuita per i clienti Prime e per ordini a partire da 29€ spediti da Amazon.

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68Ga-DOTATOC/DOTANOC: synthesis and dosimetry: PREPARATION ...

Automated Synthesis of 68Ga-DOTA-TOC with a Cationic Purification System: Evaluation of Methodological and Technical Aspects in Routine Preparations. Uccelli L(1)(2), Boschi A(1), Cittanti C(1)(2), Martini P(3), Lodi L(2), Zappaterra E(2), Romani S(2), Zaccaria S(2), Cecconi D(1), Rambaldi I(2), Santi

Automated Synthesis of 68Ga-DOTA-TOC with a Cationic ...

68 Ga-DOTATOC PET/CT protocol. PET scans were performed on a dedicated PET/CT scanner (Siemens Biograph 2; Siemens, Erlanger, Germany), using lutetium oxyorthosilicate (LSO; Lu₂SiO₅:Ce) detectors with attenuation coefficient of 0.89 cm⁻¹, photo-fraction of 30%, and decay constant of 40 nanoseconds. The energy resolution at 511 KeV was 10, with

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Role of 68Ga-DOTATOC PET/CT in the Evaluation of Primary ...

This study proposes 68Gallium (68Ga)-DOTATOC positron emission tomography/computed tomography (PET/CT) is superior to current imaging techniques. The goal is to evaluate the safety and sensitivity of 68Ga-DOTATOC PET/CT at detecting NETs and other tumors with over-expression of somatostatin receptors.

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