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Clinical studies were performed with
68Ga-DOTA, Tyr3- octreotide, localizing
neuroendocrine tumors with higher
sensitivity than 111In-
diethylenetriaminepentaacetic acid-

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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:**

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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 preparations in clinical studies.

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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

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Generator And
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

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Dotatoc Now From 68ga 68ga
Generator And
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.

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

Comprehensive Quality Control of the

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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

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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

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diagnostics include 68 Ga-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 ...

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**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

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generator 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 ...

breviated as DOTATATE (GaTate), DOTATOC (GaToc), and DOTANOC (GaNoc) (Table 1). The clinical choice of

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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 ...

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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

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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

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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

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Generator And
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.

Generator Breakthrough and Radionuclidic Purification in ...

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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

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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

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generator production, that do not
requires an...
Generator And

**Generator Breakthrough and
Radionuclidic Purification in ...**

Clinical studies were performed with
68Ga-DOTA, Tyr3- octreotide, localizing
neuroendocrine tumors with higher
sensitivity than 111In-

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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.

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Synthesis and Dosimetry Book ...

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synthesis and dosimetry: PREPARATION
OF 68Ga-DOTA-TOC/-NOC FROM
68Ge/68Ga GENERATOR AND THE
RADIATION EXPOSURE TO NUCLEAR
MEDICINE STAFF DURING HANDLING
68Ge/68Ga GENERATOR di Dwivedi,
Durgesh Kumar: spedizione gratuita per i

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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

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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

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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 spatial resolution

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of 6 mm.

Dota Toc Noc From 68ge 68ga
**Role of 68Ga-DOTATOC PET/CT in
the Evaluation of Primary ...**

Generator And
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

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PET/CT at detecting NETs and other

tumors with over-expression of
somatostatin receptors.

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Generator And**