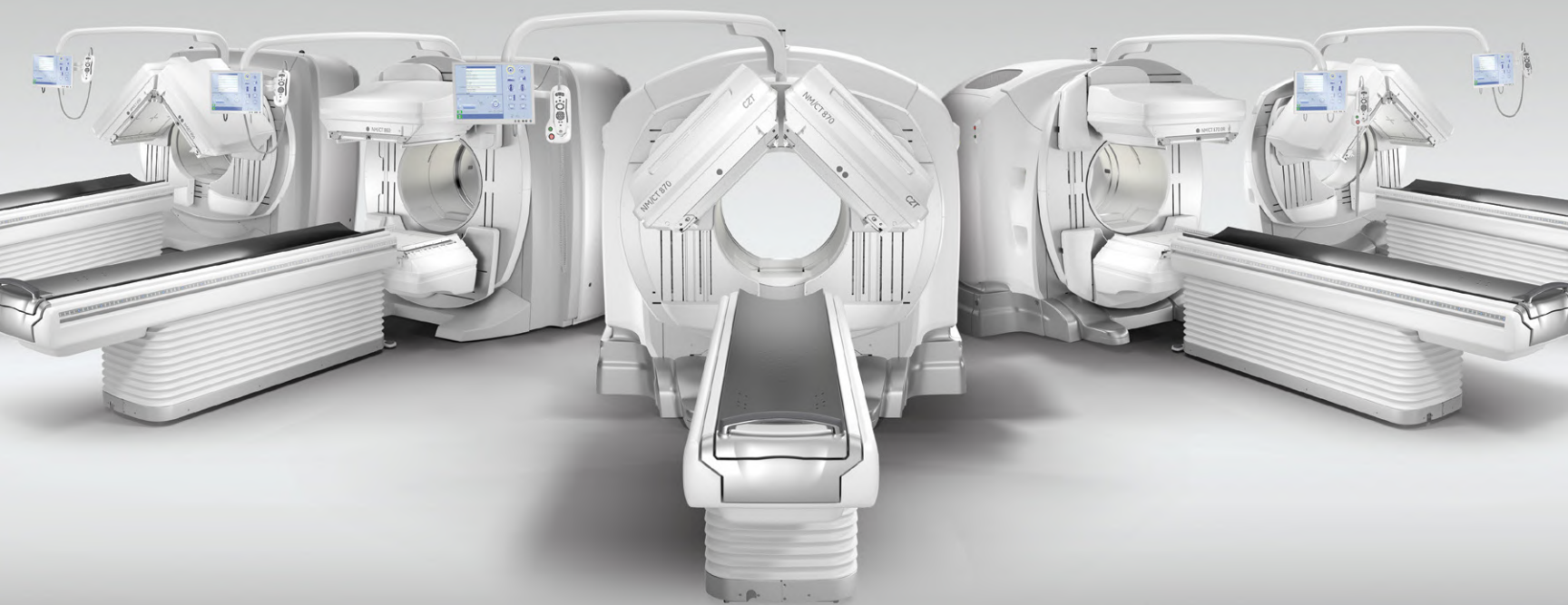


# INTRODUCING THE 800 SERIES





## A TRUE PARTNERSHIP IN TRUE DISCOVERY

When we set out to help make SPECT/CT the essential clinical tool we believed it could be, we perceived only a glimmer of its potential. Today, we continue to be in awe as we watch you use this technology every day to better diagnose your patients and to further your own clinical research.

The 800 Series reflects our continued commitment to helping improve the quality, access and affordability of SPECT/CT, so you can continue in your work to change lives for the better.

To celebrate this true partnership in true discovery, we're introducing the 800 Series. This new family of five nuclear medicine systems puts into practice everything we've learned over the course of 20 years by bringing the latest in SPECT/CT advancements to a wider range of clinical environments.

Along with the breakthrough CZT-based NM/CT 870 CZT, the digital-ready NM/CT 870 DR and the SPECT-only NM 830, the 800 Series includes two eight-slice CT hybrids. NM/CT 850 and NM/CT 860. We strategically paired these two systems with CT technology that makes state-of-the-art CT performance accessible to practices with emerging or more routine hybrid needs.



BMI: 39.9  
Dose: 907 MBq/24.5 mCi

Images courtesy of  
CHR d'Orleans, France



Non-GE system  
Full time



800 Series SwiftScan Planar  
Full time



800 Series SwiftScan Planar  
25% reduction

## A SWIFTER SCAN AND A SMARTER CONSOLE

All of our new 800 Series SPECT/CT systems build on the success of the 600 Series with a collection of SPECT technology enhancements that add to the value of nuclear medicine.

The enhancements include SwiftScan Planar and SwiftScan SPECT, which increase sensitivity and reduce scan times or injected dose by up to 25 percent, without a loss in signal-to-noise ratio<sup>2</sup>. It also includes the all-new SmartConsole. This digital processing platform modernizes nuclear medicine workflow by automating SPECT/CT reconstruction and enabling you to review scans remotely from your own mobile devices.



Diagnose disease earlier with SwiftScan Planar's and SwiftScan SPECT's improved small lesion detectability<sup>1</sup>



Enable reduction of dose or scan times by up to 25 percent with the increased sensitivity of SwiftScan Planar and SwiftScan SPECT<sup>2</sup>



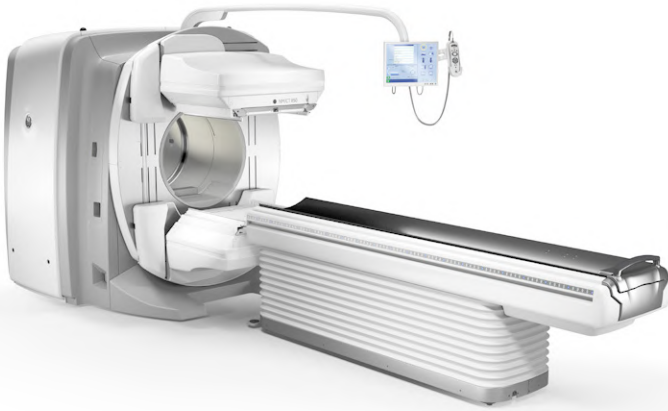
Use SmartConsole to create SPECT/CT data sets in PET/CT DICOM format for adjunct review with a PET DICOM viewer



Save time and steps by remotely collaborating with a clinician mid-exam with SmartConsole Web

NM/CT 850

## GIVE EVERY SPECT THE PERSPECTIVE OF CT



NM/CT 850 is our most accessible SPECT/CT system. It combines the SPECT image quality and productivity enhancements of the 800 Series with the essential CT technology for providing that all-important layer of anatomical information, which you need specifically for localization and attenuation correction in SPECT imaging.

It has the smallest footprint of all of our 800 Series SPECT/CT systems and provides an easy upgrade path to diagnostic CT technology. With NM/CT 850, you don't need the space for a high-end CT to ensure every SPECT image has the valuable perspective of CT.

NM/CT 860

## THE IDEAL BALANCE OF CT PERFORMANCE AND CLINICAL CAPABILITY



NM/CT 860 is a SPECT/CT system designed for high-performance clinical environments. It combines the SPECT and productivity enhancements of the 800 Series with an optimal balance of CT technology. Technology with the thin-slice CT performance you need for all of your SPECT/CT protocols and the most common standalone CT exams, without overlapping with your other CT assets.

NM/CT 860 is exactly what you need to continue to grow and strengthen the clinical value of nuclear medicine by making it more accessible in routine care.

## A FULL SPECTRUM OF SPECT/CT SOLUTIONS



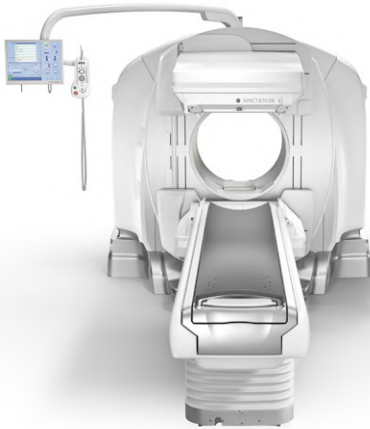
Up to 50 percent reduction in injected dose or scan time with Evolution technology<sup>4</sup>



Guide therapy planning decisions with quantitative disease state and treatment response assessments

NM/CT 870 DR

## A LEADING LIGHT IN CLINICAL DISCOVERY

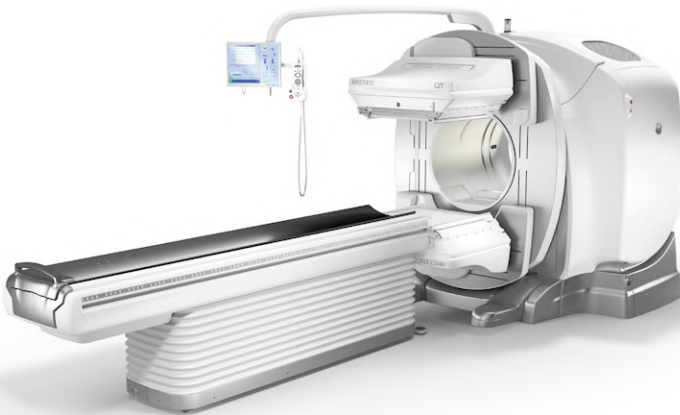


Leading clinical discovery is about improving care for as many patients as possible, which is exactly what NM/CT 870 DR was designed to do. It's a premium SPECT/CT system with the added flexibility of a standalone CT that includes the latest advancements in dose and metal artifact reduction technology.

It delivers the accurate, reproducible results referring physicians require in a comfortable and streamlined exam experience, so you can lead clinical discovery with hybrid imaging.

NM/CT 870 CZT

## BRING THEORY TO LIFE WITH CZT



NM/CT 870 CZT is our third-generation, general purpose SPECT/CT system powered by CZT technology. It combines improvements in lesion detection<sup>3</sup>, image quality and patient comfort with advanced quantitative applications provided through Xeleris™.

This latest generation offers an all-new SmartConsole and new CT advancements that include a 32-slice overlapped reconstruction capability, the latest dose reduction technologies and Smart MAR. Help bring your theories to life with a system designed to leverage all that CZT can do.



Use SmartConsole to create SPECT/CT data sets in PET/CT DICOM format for adjunct review with a PET DICOM viewer



Grow patient volumes with referring physicians that value accurate, reproducible results and the diagnostic confidence you deliver

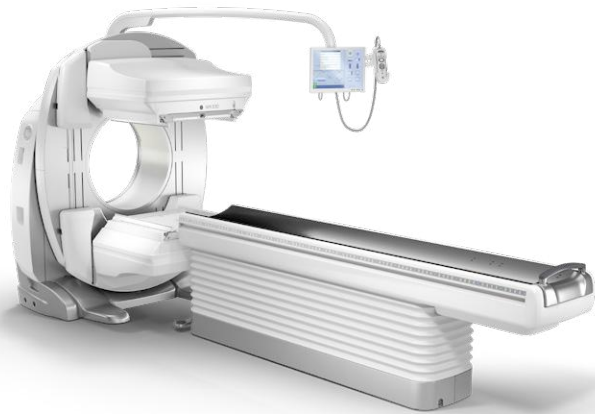


Enhance productivity with simplified workflows for complex procedures



Easy-to-use user interface helps your department operate efficiently

# INNOVATION WITH SCALABILITY FOR GROWTH



SPECT's ability to reveal physiologic and metabolic change gives you a unique tool for diagnosing and treating patients. It's this ability to make visible what could normally be invisible that enables true discovery in nuclear medicine. Whether you're looking for your first nuclear medicine camera or you need one to handle overflow from your rising patient volume, NM 830 is our SPECT-only system designed to grow with your practice with a lower initial investment.



Provide shorter, more tolerable exams for greater patient comfort with Evolution technology<sup>4</sup>



Diagnose disease earlier with SwiftScan SPECT's improved small lesion detectability<sup>1</sup>

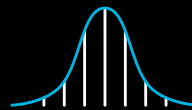


Enable reduction of dose or scan times by up to 25 percent with the increased sensitivity of SwiftScan Planar and SwiftScan SPECT<sup>2</sup>

## Xeleris 4 DR

# INFORM YOUR DECISIONS WITH MEASURABLE RESULTS

Xeleris 4 DR is the next generation of our proven workstation for nuclear medicine. In the past, Xeleris led the way with mobilized capabilities that gave you accessible, easy-to-use tools to enhance productivity. Xeleris 4 DR delivers modern, quantitative applications for nuclear medicine; applications like the all-new Q.Volumetric MI, which gives you the certainty of absolute quantitation in customizable, easy-to-read reports across multiple care areas.



Measure treatment response with empirical values with Q.Volumetric MI



Save up to 31 percent of your clinicians' time with a streamlined workflow and reduce "clicks" by 37 percent on average with Q.Volumetric MI



Keep patient information secure with a collection of security enhancements

Patient Name: Tashayni\_PJ\_2018a\_1  
 Patient AC Followup: 11/15/18  
 Study Name: ScaUpn  
 Date & Time: 04/25/2018 08:16:28  
 Manufacturer Model: Toshiba - Discovery 670

Region	Previous	Current	% Change	Previous	Current	% Change	Previous	Current	% Change
All Slice	1367	5373	+45%	38.5	23.6	-39%	2.21	1.59	-28%
Global SUV	1228	1215	-1%	38.5	23.6	-39%	3.62	8.34	+48%



FIND YOUR NEXT  
TRUE DISCOVERY  
WITH THE 800 SERIES

The true potential of nuclear medicine is its ability to enable a true discovery. A true discovery is different, because it provides reproducible evidence that reveals a greater truth about the human body. A truth that has the ability to not only change the life of one patient, but to transcend an individual to benefit all patients.

Everything we do is with the purpose of providing you with the tools you need to go in search of true discovery. In nuclear medicine, this means a commitment to making it more accessible and increasing the value of its results to referring physicians. The result of this commitment is the 800 Series. A wide array of nuclear medicine technologies designed to help you start delivering better patient outcomes.



- <sup>1</sup> As demonstrated in phantom testing using a model observer. For SPECT, compared to using the LEHR Collimator and a SPECT Step and Shoot acquisition. For Planar, compared to using LEHR without Clarity 2D.
- <sup>2</sup> Compared to LEHR collimator, with Step & Shoot scan mode (for SPECT) / without Clarity 2D (for Planar). As demonstrated in phantom testing using a bone scan protocol, Evolution processing (for SPECT), and a model observer. Because model observer results may not always match those from a human reader, the actual time/dose reduction depends on the clinical task, patient size, anatomical location and clinical practice. A radiologist should determine the appropriate scan time/dose for the particular clinical task.
- <sup>3</sup> In clinical practice, the use of NM/CT 870 CZT may improve lesion detectability depending on the clinical task, patient size, anatomical location and clinical practice. A consultation with a radiologist and a physicist should be made to determine the appropriate dose or scan time to obtain diagnostic image quality for the particular clinical task.
- <sup>4</sup> In clinical practice, Evolution options<sup>4a</sup> (Evolution for Bone, Evolution for Cardiac, Evolution for Bone Planar) and Evolution Toolkit<sup>4b</sup> are recommended for use following consultation of a Nuclear Medicine physician, physicist and/or application specialist to determine the appropriate dose or scan time reduction to obtain diagnostic image quality for a particular clinical task, depending on the protocol adopted by the clinical site.
- <sup>4a</sup> Evolution Options - Evolution claims are supported by simulation of count statistics using default factory protocols and imaging of <sup>99m</sup>Tc based radiotracers with LEHR collimator on anthropomorphic phantom or realistic NCAT - SIMSET phantom followed by quantitative and qualitative images comparison.
- <sup>4b</sup> Evolution Toolkit - Evolution Toolkit claims are supported by simulation of full count statistics using lesion simulation phantom images based on various radiotracers and collimators and by showing that SPECT image quality reconstructed with Evolution Toolkit provide equivalent clinical information but have better signal-to-noise, contrast, and lesion resolution compared to the images reconstructed with FBP / OSEM.

GE Healthcare is a leading provider of medical imaging, monitoring, biomanufacturing, and cell and gene therapy technologies. GE Healthcare enables precision health in diagnostics, therapeutics and monitoring through intelligent devices, data analytics, applications and services. With over 100 years of experience and leadership in the healthcare industry and more than 50,000 employees globally, GE Healthcare helps healthcare providers, researchers and life sciences companies in their mission to improve outcomes for patients around the world. Follow us on Facebook, LinkedIn, Twitter and The Pulse for latest news, or visit our website [www.gehealthcare.com](http://www.gehealthcare.com) for more information.

## Imagination at work

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