



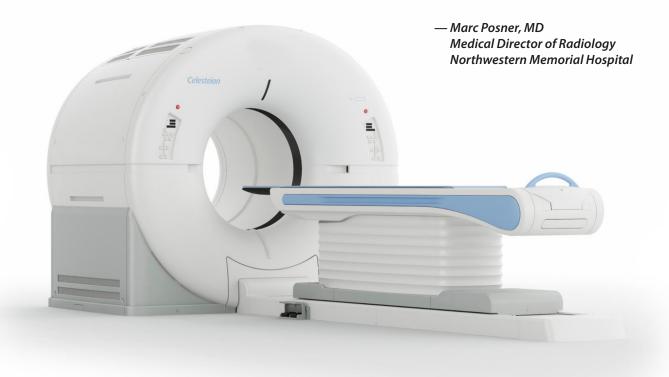
PET/CT

The Need for Easy, Consistent Acquisitions

"Standardizing the RT workflow is considered essential to improve RT treatment quality and reduce miscommunication or human errors." 1

Easy, Consistent Acquisition for Radiation Oncology

"The technical advances in PET/CT are allowing us to advance the treatment through in radiation oncology and therefore the importance of the role of PET/CT scanning in radiation oncology." ²



Easy, Consistent Acquisitions

Automated workflows for reproducible, accurate simulations and treatment plans.

High-Capacity Table

Ability to scan a greater range of patient sizes

- Cartesion Prime has 485 lb table
- Celesteion table has a 450 lb capacity

Variable Bed Time (vBT) variable Bed Time and Respiratory Gating

Enables higher exam efficiency by adjusting the acquisition time for each bed position depending on body sizes and types of clinical exams

Advanced intelligent Clear-IQ Engine (AiCE) Performance and Respiratory Gating

AiCE for PET

Respiratory PET Gating

4D CT³

- Preserves SNR after count reduction^{4,5}
- May provide clinicians flexibility to perform respiratory gating without the need to extend acquisition times
- Creates motion frozen PET images
- Reduces respiratory motion artifacts
- Gated Bed Time = 2x Non Gated Protocol

2x Non Gated Bed (e.g., 2 x 90s)

Window Center 50%

Enables respiratory gated scanning. Integrates seamlessly with a range of respiratory gating devices and can perform both phase and amplitude sorting. Scan parameters automatically set by the scanner based on the patient's breath cycle

- Helical scan mode, with phase and amplitude binning
- Volume scan mode with phase-based reconstruction

SURE Exposure

Dose modulation tool for personalized dose management

- Calculates the optimum radiation exposure for every exam
- Adjusts the dose for each patient based on a preset, targeted level of image quality, making it easy to use on all exams



SUREKV

Automated kV selection that is integrated into the

- Integrated and easy to use
- Automated kV selection based on patient size, SURE Exposure settings and clinical task
- Clinically targeted kV selections of 80, 100, 120, 135
- 1 Journal of Applied Clinical Medical Physics, Clinical practice workflow in Radiation Oncology should be highly standardized, Journal of Applied Clinical Medical Physics Per Halvorsen, Nilendu Gupta, Yi Rong First published: 12 March 2019, Lancet 2021; 398: 171–84, Contemporary radiotherapy: present and future, Ravi A Chandra*, Florence K Keane*, Francine E M Voncken, Charles R Thomas Jr
- ²The clinical results, performance and views described are the experience of the clinicians. Results may vary due to clinical setting, patient presentation and other factors.

⁴As compared to OSEM + PSF+ Gaussian Post Filtering at 100% counts or without scan duration reduction ⁵Based on bench test results (10 mm sphere)

@CanonMedicalUS



in Canon Medical Systems USA, Inc.



+CanonMedicalUS

Follow us: https://us.medical.canon

CANON MEDICAL SYSTEMS USA, INC.

https://us.medical.canon | 2441 Michelle Drive, Tustin CA 92780 | 800.421.1968

©Canon Medical Systems, USA 2022. All rights reserved. Design and specifications subject to change without notice. Made for Life is a trademark of Canon Medical Systems Corporation.

Made For life