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# The Protector by Your Side

Clinical Experience References



Clear Direction. ➤ From Diagnosis to Care.

**MEDRAD® Intego**  
PET Infusion System

# One System. 6 Million Administrations\*.

The MEDRAD® Intego PET Infusion System has been documented to reduce operator radiation exposure in PET procedures.

Six million PET infusions and counting. More than 6 million times around the world, MEDRAD® Intego has been trusted for PET infusions.

MEDRAD® Intego has an installed base of more than 600 units in more than 45 countries.

### Clinical experience references

Summary of MEDRAD® Intego Presentations and Publications				
Date	Title	Source	Category	Summary
07/2020	Assessing and Reducing Positron Emission Tomography/Computed Tomography Radiotracer Infiltrations: Lessons in Quality Improvement and Sustainability	Kiser J et al. JCO Oncol Pract. 2020; 16(7): e636-e640.	Infiltrations	Results: Use of the autoinjector resulted in 1 infiltration out of 180 injections (0.6%), while 98 manual injections resulted in 7 infiltrations (7.1%)
03/2020	Use of a radiopharmaceutical multidose dispenser for positron emission tomography: Risk assessment and mitigation measures for infection prevention	Karanfilovska D et al. Infect Dis Health. 2020; 25(2): 101-106.	Staff Radiation Dose Reduction	Risk identified: Staff radiation levels will exceed safe limits with conventional PET delivery method in context of increased service demand. Possible consequences: Danger to staff health; Furlough from duties. The risk migration matrix included "Introduce automated PET delivery system (Intego) to reduce staff radiation exposure from conventional PET". Results included "Early observations indicate that staff radiation exposure associated with PET delivery is declining since the introduction of the Intego"
05/2015	Variability of [18F]FDG administered activities among patients undergoing PET examinations: an international multicenter survey	Del Sole A et al. Radiat Prot Dosimetry. 2016; 168(3): 337-342.	Patient Radiation Dose Reduction	Lower patient effective dose with weight-based dosing than fixed dose: 18–46% less, depending on scanner characteristics and scan duration. Database: 24,716 infusions with Intego
03/2015	Evaluation of an automated FDG dose infuser to PET-CT patients	Sánchez RM et al. Radiat Prot Dosimetry. 2015; 165(1-4): 457-460.	Staff Radiation Dose Reduction. Intego dose delivered accuracy.	Reductions in fingertip doses of 60%. 2% difference between programmed and delivered activity
12/2012	Occupational Radiation Dosimetry Assessment Using an Automated Infusion Device for Positron-Emitting Radiotracers	Schleipman AR et al. J Nucl Med Technol. 2012; 40(4): 244-248.	Staff Radiation Dose Reduction	10-fold decrease in staff extremity and body doses during administration
10/2012	Minimizing Occupational Exposures: A 2-Year Radiation Protection Strategy to Achieve the Goal	Prévot S et al. Eur J Nuc Med Mol Imaging. 2012; 39: (Supplement 2)S392.	Staff Radiation Dose Reduction	The use of Intego reduced WB exposure per PET procedure by 19% and the reduction of injected doses by 34%. Collective finger dose decreased by 39%.
10/2012	Impact of an Automated FDG Infusion System in Radiation Exposure to PET Technologists	Lima S et al. Eur J Nuc Med Mol Imaging. 2012; 39: (Supplement 2)S523.	Staff Radiation Dose Reduction	23% reduction in measured chest dose and 70% reduction in measured extremity dose
06/2012	Validation of a new protocol for 18F-FDG infusion using an automatic combined dispenser and injector system	Lecchi M et al. Eur J Nucl Med Mol Imaging. 2012; 39(11): 1720-1729.	Sterility and Staff Radiation Dose Reduction	Sterility of entire process was maintained when using Intego; 94% reduction in operator extremity dose
06/2012	Radiation exposure reduction to PET technologists with the use of an automated dosage delivery system	Carolan P et al. J Nucl Med. 2012; 53: (Supplement 1)2185.	Staff Radiation Dose Reduction	Readings referring to core imaging technologists and core and rotating technologists respectively: 47.5% and 43.9% reduction in finger badge readings; 21.0% and 23.4% reduction in body badge readings
06/2012	Methods to reduce nuclear medicine staff radiation exposure from 18FDG exams	Maimone S et al. J Nucl Med. 2012; 53: (Supplement 1)1519.	Staff Radiation Dose Reduction	Converting from a unit dose to the MEDRAD Intego injection system reduced whole body exposure from an average of 1.4 millirem/patient to 0.57 millirem/patient
06/2010	Impact of an integrated dose infusion system on the PET/CT imaging process	Yalcin A et al. J Nucl Med. 2010; 51: (Supplement 2)2078.	Efficiency	"Improved pace and accuracy in a busy clinical PET department. Staff time, physical labor, and distractions were saved."
04/2010	Radiation Exposure in Routine Practice with PET/CT and Automatic Infusion System – Practical experience report	Tomše P et al. IFMBE Proceedings. 2010; 29: 719-721.	Staff Radiation Dose Reduction	"Usage of automatic infusion system virtually eliminates manual dose preparation, and occupational risk for radiopharmacists involved in PET procedure is lowered."
10/2009	Radiation exposure to the staff with an automatic 18F-FDG dose injector	Skøtt C et al. Eur J Nuc Med Mol Imaging. 2009; 36: (Supplement 2)S484.	Staff Radiation Dose Reduction and Efficiency	3- to 10-fold reduction in technologist exposure

# The Protector by Your Side

For more information on the MEDRAD® Intego PET Infusion System, please visit [radiology.bayer.com](http://radiology.bayer.com)

Here you will find a variety of additional resources, including:

- > Patient infusion video
- > Virtual demonstration video with 360° views
- > Clinical Experience References
- > Specifications, ordering information, and more



\* Based on Worldwide Patient Administration Set (PAS) sales data, August 2008–May 2022    1    Bayer sponsored these references or the author is a paid employee/consultant of Bayer.