



Medrad® Intego PET Infusion System – Radiation Dose Management System

Connecting the practice to the patient.

A DOSE OF INTEGRATION

Streamlined schedule management:

Through the touch of a button, users can wirelessly import the daily schedule of PET procedures from the modality.

Automated infusion records and radiation dose tracking:

Detailed infusion records, including FDG dose delivered to the patient, automatically transferred to PACS.

Estimated absorbed radiation dose by organ automatically transferred to PACS, aiding efforts to monitor and manage patient radiation exposure.



Patient Id	Patient Name	Accession	Start Time
C44289	Patient 1	09484	10:30:00
A12356	Patient 2	08452	11:00:00
B45687	Patient 3	01659	11:30:00
A89762	Patient 4	02247	12:00:00
C11365	Patient 5	06598	12:30:00

Patient Information

Refresh Add Patient

Patient 1	10:30	C44289	10.4 mCi
Patient 2	11:00	A12356	9.7 mCi
Patient 3	11:30	B45687	11.6 mCi
Patient 4	12:00	A89762	8.2 mCi
Patient 5	12:30	C11365	9.4 mCi

Schedule information wirelessly imported

C44289 PATIENT 1

Full -- Infusion: 10.39 mCi

Dose Administration Information

Infusion Date: 18 July 2015
 Infusion Time: 11:54
 Delivered Dose: 10.39 mCi
 Requested Dose: 10.40 mCi
 Volume: 3 ml
 Total Volume: 35 ml
 Flow Rate: 1.0 ml/sec
 Dosing Method: Activity Based
 Dosing Formula: --
 Dosing Weight: --
 Glucose Level: 0 mg/dL
 Infusion Date: --
 Operator ID: --
 Infusion Type: Full
 Infusion Error: No

Source Information

ISG Number: --
 Remaining Activity: 310 mCi
 Remaining Volume: 8 ml

Assay Time: 00:16
 Assay Activity: 675.68 mCi
 Assay Volume: 10 ml

C44289 PATIENT 1

Full -- Infusion: 10.39 mCi

Estimated Absorbed Radiation Dose

Brain	2.2 mGy	Thyroid	1.7 mGy
Lung	1.6 mGy	Stomach	1.5 mGy
Liver	1.5 mGy	ULI	2.2 mGy
Kidney	7.3 mGy	LLI	4.6 mGy
Bladder	7.3 mGy	Testes	3.0 mGy
Bone	23.1 mGy	Skin	1.5 mGy

Total Effective Dose: 10.4 mSv

Infusion results and estimated absorbed radiation dose wirelessly transferred to PACS

Patient information listed on the GUIs has been changed to fictitious information.



Medrad® Intego PET Infusion System – Radiation Dose Management System

Schedule Management

- ◆ Save time and steps through wireless PET schedule import
- ◆ Efficiently manage daily schedule changes and add-ons

Decision Support

- ◆ Streamline reliable and comprehensive information from point of care to study interpretation
- ◆ Enable efficient access to prior protocols for standardized treatment planning
- ◆ Support inspections, audits, and initiatives with detailed infusion and radiation documentation
- ◆ Improve communication to patients and referring physicians

<p>C44289 PATIENT 1 M</p> <p>Full -- Infusion: 10.39 mCi 18 July 2015 11:54</p>	<p>Injection Results 09484 18-July-2015 Acq: - Se: 998/1 Im: 1/2</p>	<p>Dose Administration Information</p> <p>Infusion Date: 18 July 2015 Infusion Time: 11:54 Delivered Dose: 10.39 mCi Requested Dose: 10.40 mCi -- Volume: 3 ml Total Volume: 35 ml Flow Rate: 1.0 ml/sec Dosing Method: Activity Based Dosing Formula: - Dosing Weight: - Glucose Level: 0 mg/dL Infusion Site: - Operator ID: - Infusion Type: Full Infusion Error: No</p> <p>Source Information</p> <p>Lot Number: - Remaining Activity: 310 mCi Remaining Volume: 8 ml</p> <p>Assay Time: 00:16 Assay Activity: 675.68 mCi Assay Volume: 10 ml</p>	<p>C44289 PATIENT 1 M</p> <p>Full -- Infusion: 10.39 mCi 18 July 2015 11:54</p> <p>Estimated Absorbed Radiation Dose</p> <table border="1"> <tr> <td>Brain</td> <td>2.2 mGy</td> <td>Thyroid</td> <td>1.7 mGy</td> </tr> <tr> <td>Lung</td> <td>1.6 mGy</td> <td>Stomach</td> <td>1.5 mGy</td> </tr> <tr> <td>Liver</td> <td>1.5 mGy</td> <td>ULI</td> <td>2.2 mGy</td> </tr> <tr> <td>Kidney</td> <td>7.3 mGy</td> <td>LLI</td> <td>4.6 mGy</td> </tr> <tr> <td>Bladder</td> <td>7.3 mGy</td> <td>Testes</td> <td>3.0 mGy</td> </tr> <tr> <td>Bone</td> <td>23.1 mGy</td> <td>Skin</td> <td>1.5 mGy</td> </tr> </table> <p>Total Effective Dose 10.4 mSv</p> <p><small>NUREG/CR-6345, Radiation Dose Estimates for Radiopharmaceuticals, Oak Ridge Institute for Science and Education, 1996</small></p>	Brain	2.2 mGy	Thyroid	1.7 mGy	Lung	1.6 mGy	Stomach	1.5 mGy	Liver	1.5 mGy	ULI	2.2 mGy	Kidney	7.3 mGy	LLI	4.6 mGy	Bladder	7.3 mGy	Testes	3.0 mGy	Bone	23.1 mGy	Skin	1.5 mGy	<p>Injection Results 09484 18-July-2015 Acq: - Se: 998/1 Im: 2/2</p>
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<p>Zoom: 1.45x W:256 L:128 (Identity)</p>		<p>Demo Workstation Intego Demo Hospital DFOV: -</p>		<p>Zoom: 1.45x W:256 L:128 (Identity)</p>		<p>Demo Workstation Intego Demo Hospital DFOV: -</p>																						


PACS data capture of infusion results and estimated absorbed radiation dose.

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