



Tech-Assist™

A portable FDG dose administration system

Positron initiated several studies evaluating the Tech-Assist's™ capabilities. The studies indicated radiation reduction due to several of the Tech-Assist's™ design features that enhance the ALARA principles of Time, Distance and Shielding.

TIME - DISTANCE - SHIELDING:

The cart and rotating mounting bracket enables additional tungsten in the syringe shield and provides increased distance during transport and injection. The enhanced syringe shield has an integrated plunger which compliments the cart's exposure reducing attributes by maintaining distance from the radioactive source. The features of the Tech-Assist™ not only increase the distance and shielding but also reduces the time in proximity to the radiation source. For more information, please visit http://www.positron.com/tech_assist.html.

EXPOSURE COMPARISON STUDY

Month Using the Tech-Assist™ Whole Body	Previous Month's Whole Body	Reduction %
(Nov) 31	(June) 132	76%
	(July) 111	72%
	(Aug) 62	50%
	(Sept) 76	59%
	(Oct) 82	62%

Month Using the Tech-Assist™ Extremity	Previous Month's Extremity	Reduction %
(Nov) 240	(Oct) 490	51%
	(Sept) 550	56%
	(Aug) 450	46%
	(July) 400	40%

A historic whole body and ring reading comparison study performed by Ash Rafique, Director of PET at Mount Sinai Medical Center, New York.

The Results:

The tables shown demonstrate that the Tech-Assist™ is effective at reducing radiation exposure and offers a new approach for achieving improved ALARA levels.

(*Data on file, this product has not been reviewed by the FDA.)

SHIELDING COMPARISON STUDY

Tech-Assist™ 18mCi Dose Plunger End 1.4 mR/hr	Competitor's Product 18mCi Dose Plunger End 15.5 mR/hr (capped) >300 mR/hr (uncapped)	Reduction % 90%-99%
Tech-Assist™ 18mCi Dose Syringe Body 18 mR/hr	Competitor's Product 18mCi Dose Syringe Body 80 mR/hr	Reduction % 77%

A shielding study conducted by Positron.

Tech-Assist™ 10mCi Dose Plunger End 0.25 mR/hr	PET Syringe Shield 10mCi Dose Plunger End >300 mR/hr	Reduction % 99%
Tech-Assist™ 10mCi Dose Syringe Body 16 mR/hr	PET Syringe Shield 10mCi Dose Syringe Body >300 mR/hr	Reduction % 94%

A shielding study conducted by Posistar, LLC, an independent pharmacy in Denver, CO.



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