

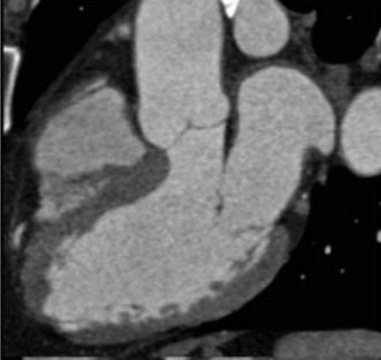
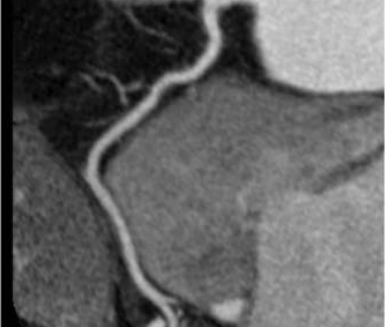
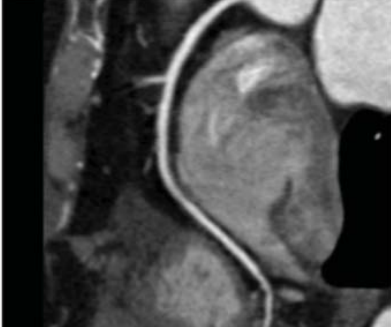
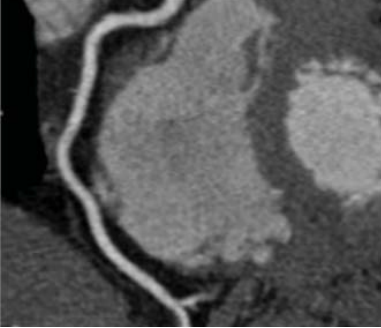


MEDRAD® P3T® Cardiac Software for CCTA

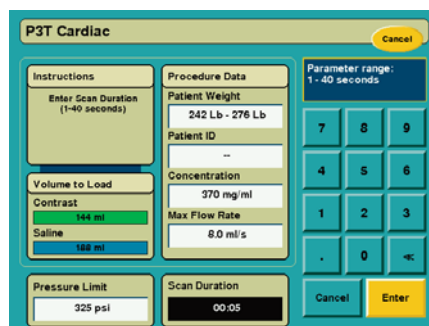
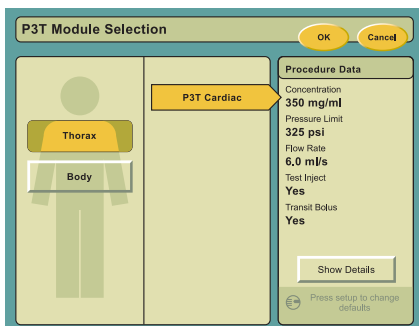
More homogenous and brighter enhancement in P3T® Cardiac compared to the control protocols.¹

Control 1	P3T® Group	Control 2
		
		

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Control 1 – Test bolus + 80 mL @ 6 mL/s, 50 mL 30/70 ratio, 50 mL Saline Flush
 Control 2 – Bolus Tracking 80 mL @ 5 mL/s, 50 mL 30/70 ratio
 P3T® Group – P3T Cardiac software generated protocol

P3T® Cardiac is a software application to calculate a personalized injection protocol based on patient, scan, and contrast parameters.



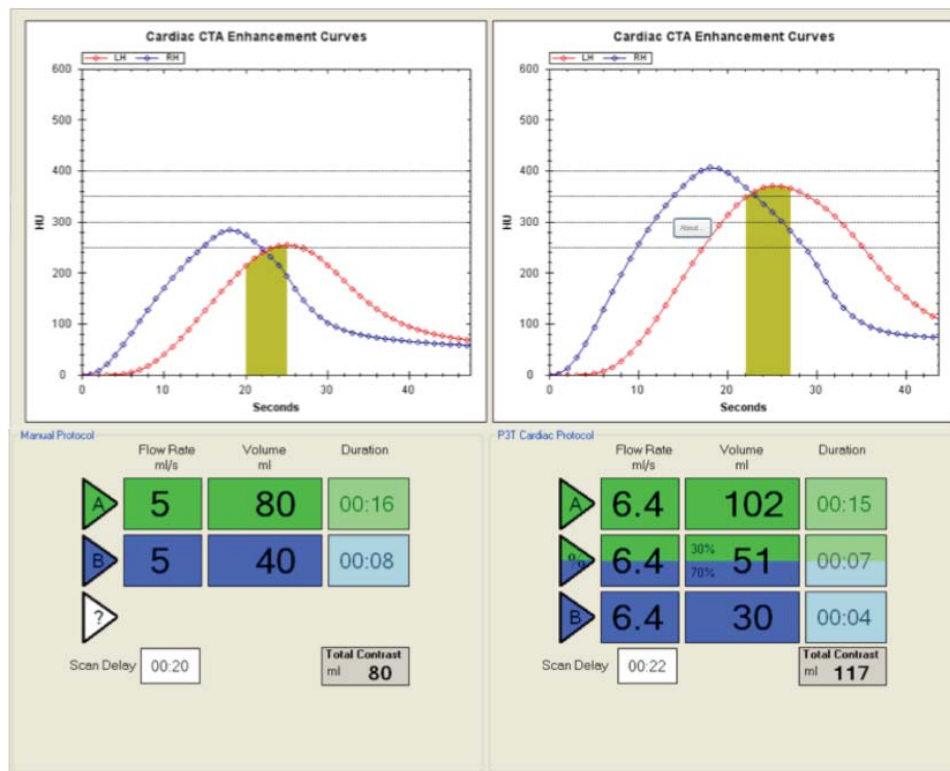
Patient information is fictitious and is used for simulation purposes only.

MEDRAD® P3T® Cardiac Software

Comparison of simulated contrast enhancement

Comparison of simulated contrast enhancement in the cardiac structures using Bae-Brink-Heiken pharmacokinetic model² and a simulated patient with the following demographics: 300 lbs, 60 year-old male. The scan duration was set to 5 seconds and the contrast concentration was 370 mgI/mL.

Notice the enhancement was greater than 350 HU throughout the entire scan duration for the simulated response using the P3T Cardiac protocol.



References:

1. Eur Radiol. 2009 Oct;19(10):2373-82. Epub 2009 May 8. Introduction of an individually optimized protocol for the injection of contrast medium for coronary CT angiography. Seifarth H, Puesken M, Kalafut JF, Wienbeck S, Wessling J, Maintz D, Heindel W, Juergens KU.
2. Graphs generated at MEDRAD via simulations based on model from: Bae, K.T., J.P. Heiken, and J.A. Brink, Aortic and hepatic contrast medium enhancement at CT. Part I. Prediction with a computer model. Radiology, 1998. 207(3): p. 647-55.

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MEDRAD, INC.
One Medrad Drive
Indianola, PA 15051-0780 USA
Telephone: +1-412-767-2400
Fax: +1-412-767-4120

www.medrad.com
Email address for more information:
info@medrad.com

Customer Service/Orders
+1-800-MEDRAD-1
+1-800-633-7231

Customer Service Fax
+1-412-767-4120

