

Dear Emory Cardiac Toolbox Customer,

The Emory Cardiac Toolbox (ECTb v3 .x ) program which you have just installed from our web site needs to be tested in order to verify proper operation prior to using it clinically. Following installation you should use the program to process the example patients that are provided. These patients are located in the C:\Program Files\Syntermed\ ECToolbox\ExamplePts folder. Run both the normal (SPECT: Nancy Demo) and abnormal patients (SPECT: Kay Demo and PET: Frank Demo) and check your results with the expected results which are listed on the next page. Please review the manuals which you downloaded from the web site and are located on your PC.

Thanks you for your interest in the Emory Cardiac Toolbox program and we look forward to working with you both now and in the future to meet all your Nuclear Cardiology and Nuclear Medicine medical imaging needs. If you have any questions regarding these software programs please don't hesitate to call us at 888 263-4446 ext 1.

Sincerely,

Kenneth F. Van Train  
President

## ECTb 3.x Acceptance Testing

Following installation of the Emory Cardiac Toolbox Network on your PC and prior to using the program for evaluation of your clinical studies you need to process three of the example patients downloaded from our web site to perform the acceptance testing. Listed below are the expected results for perfusion and function for the three patients. Compare the actual results you receive with the expected results.

NormalExample (Nancy Demo Nml Dual Isotope) – Use Optimized Dual Isotope nl limit

<b>ECTb Page:</b>	<b>Function Evaluated</b>	<b>Expected Result</b>	<b>Actual Result</b>
Parameters	Stress Center	(32.32, 33.03)	
	Rest Center	(34.01, 26.73)	
	Stress Apex	4	
	Stress Base	15	
	Rest Apex	4	
	Rest Base	15	
Slices	TID Ratio	0.86	
Polar Maps -Extent/ Mass (ungated)	Stress Defect - Estimated Mass	Def 1: 0 gm	
	Stress Defect - Stress Percent of Myo	Def 1: 0%	
	Reversibility – Estimated Mass	0gm	
	Reversibility – Percent of Defect	0%	
	Reversibility – Percent of Myo	0%	
	Stress Total Severity Score	0	
	Rest Total Severity Score	0	
	Reversibility Total Sev. Score	0	
	Extent – Stress Defect: Total LAD LCX RCA	0 0 0 0	
	Extent - Reversibility: Total LAD LCX RCA	0 0 0 0	
Functional Analysis	EF EDV ESV SV Mass	85% (RO) 68 ml 10 ml 58 ml 114 gm	

## ECTb 3.x Acceptance Testing (page 2)

DualGated (Kay Demo) – Use 1 Day Rest/Stress Sestamibi nl limit

ECTb Page:	Function Evaluated	Expected Result	Actual Result
Parameters	Stress Center	(31.70, 31.38)	
	Rest Center	(31.58, 31.49)	
	Stress Apex	6	
	Stress Base	19	
	Rest Apex	5	
	Rest Base	18	
Slices	TID Ratio	1.14	
Polar Maps -Extent/ Mass (ungated)	Stress Defect - Estimated Mass	Def 1: 27 gm	
	Stress Defect - Stress Percent of Myo	Def 1: 20%	
	Reversibility – Estimated Mass	3gm	
	Reversibility – Percent of Defect	10%	
	Reversibility – Percent of Myo	2%	
	Stress Total Severity Score	405	
	Rest Total Severity Score	336	
	Reversibility Total Sev. Score	18	
	Extent – Stress Defect: Total LAD LCX RCA	18 1 14 47	
	Extent - Reversibility: Total LAD LCX RCA	10 0 36 9	
Functional Analysis	EF EDV ESV SV Mass	73% (RO) 112 ml 31 ml 81 ml 145 gm	

## ECTb 3.x Acceptance Testing (page 3)

Frank Demo (PET Rb/FDG) – Use Rest Rubidium/FDG nl limit

ECTb Page:	Function Evaluated	Expected Result	Actual
Parameters	Rest Rb Center	(33.01, 32.04)	
	FDG F-18 Center	(33.01, 31.40)	
	Stress Apex	5	
	Stress Base	18	
	Rest Apex	5	
	Rest Base	18	
Slices	TID Ratio	NA	
Polar Maps -Extent/ Mass (ungated)	Rest Defect - Estimated Mass	Def 1: 64 gm	
	Rest Defect - Stress Percent of Myo	Def 1: 40%	
	Mismatch – Estimated Mass	63gm	
	Mismatch – Percent of Defect	98%	
	Mismatch – Percent of Myo	39%	
	Match – Estimated Mass	1gm	
	Match – Percent of Defect	2%	
	Match – Percent of Myo	1%	
	Extent –Rest Defect : Total LAD LCX RCA	42 67 0 22	
	Mismatch: Total LAD LCX RCA	98 99 0 95	
	Match: Total LAD LCX RCA	2 1 0 5	
Functional Analysis	EF EDV ESV SV Mass	11% 135 ml 121 ml 14 ml 161 gm	