

Table D4: Population characteristics –CRT D effectiveness

Author,Year Trial	Arm (arm name): n(%)	Female, n (%) Race, n(%)	Age (years) Mean, median, range	Ischemic cardiomyopathy, n (%)	Atrial fibrillation, n (%)	QRS interval, Mean, median, range	QRS morphology - LBBB, n(%) RBBB, n(%) IVCD, n(%) PBBBlock, n(%)	NYHA class, n(%)	LVEF, Mean, median, range, SD	Creatinine GFR
Young,2003 ²⁶ MIRACLE ICD	Arm 1(Control):182	F: 41(22.5) NR	Mean: 67.6 Med: NR Range: NR SD: 9.2	138(75.8)	NR	Mean: 162 Med: NR Range: NR SD: 22	LBBB :NR RBBB: 24(13) IVCD: NR PBBBlock: NR	III: 163(89.6) IV: 19(10.4)	Mean: 23.9 Med: NR Range: NR SD: 6	Creat: NR GFR:NR
	Arm 2(CRT):187	F: 45(24.1) NR	Mean: 66.6 Med: NR Range: NR SD: 11.3	119(64)	NR	Mean: 165 Med: NR Range: NR SD: 22	LBBB :NR RBBB: 25(13) IVCD: NR PBBBlock: NR	III: 165(88.2) IV: 22(11.8)	Mean: 24.2 Med: NR Range: NR SD: 6.5	Creat: NR GFR: NR
Healey,2012 ²⁵ RAFT Sub Study	Arm 1(ICD):115	F: NR(14.8) NR	Mean: 71.6 Med: NR Range: NR SD: 7.3	NR	115(100)	Mean: 151 Med: NR Range: NR SD: 23.6	NR	II: NR(74.8)	Mean: 22.9 Med: NR Range: NR SD: 5.3	Creat: 117 µmol/L GFR: NR
	Arm 2(CRT- ICD):114	F: NR(9.6) NR	Mean: 70.4 Med: NR Range: NR SD: 7.7	NR	114(100)	Mean: 153.4 Med: NR Range: NR SD: 24.7	NR	II: NR(69.3)	Mean: 22.3 Med: NR Range: NR SD: 5.1	Creat: 132 µmol/L GFR: NR
Solomon,2010 ¹⁹ MADIT CRT Sub Study	Arm 1(ICD):623	F: 154(24.7) W:567(91) O:Non White 56(9)	Mean: 64.3 Med: NR Range: NR SD: 10.7	334(53.6)	NR	Mean: 159.3 Med: NR Range: NR SD: 20.4	LBBB :444(71.2) RBBB: 79(12.7) IVCD: NR PBBBlock: NR	II: 523(83.9)	Mean: NR Med: NR Range: NR SD: NR	Creat: NR GFR: 68.8ml/min /1.73m ²
	Arm 2(CRT- D):749	F: 184(24.6) W:684(91.3)) O:Non	Mean: 64.4 Med: NR Range: NR SD: 10.8	411(54.9)	NR	Mean: 158.6 Med: NR Range: NR SD: 19.5	LBBB :532(71) RBBB: 83(11.1) IVCD: NR	II: 640(85.4)	Mean: NR Med: NR Range: NR SD: NR	Creat: NR GFR: 69.4ml/min /1.73m ²

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		White 65(8.7)					PBBBlock: NR			
Tang,2010 ²² RAFT	Arm 1(ICD):904	F: 172(19) NR	Mean: 66.2 Med: NR Range: NR SD: 9.4	587(64.9)	115(12.7)	Mean: 158.3 Med: NR Range: NR SD: 24	LBBB :643(71.1) RBBB: 93(10.3) IVCD: 101(11.2) PBBBlock: 67(7.4)	II: 730(80.8) III: 174(19.2)	Mean: 22.6 Med: NR Range: NR SD: 5.1	Creat: NR GFR: NR
	Arm 2(ICD- CRT):894	F: 136(13.2) NR	Mean: 66.1 Med: NR Range: NR SD: 9.3	614(68.7)	114(12.8)	Mean: 157 Med: NR Range: NR SD: 23.6	LBBB :652(72.9) RBBB: 68(7.6) IVCD: 106(11.9) PBBBlock: 68(7.6)	II: 708(79.2) III: 186(20.8)	Mean: 22.6 Med: NR Range: NR SD: 5.4	Creat: NR GFR: NR
Abraham,2004 ³ ⁴ MIRACLE ICD II	Arm 1(Control):101	F: 10(9.9) NR	Mean: 63.1 Med: NR Range: NR SD: 12.1	59(58.4)	NR	Mean: 165 Med: NR Range: NR SD: 23	LBBB :NR RBBB: 21(20.8) IVCD: NR PBBBlock: NR	II: 101(100)	Mean: 24.6 Med: NR Range: NR SD: 6.7	Creat: NR GFR: NR
	Arm 2(CRT):85	F: 10(11.8) NR	Mean: 63 Med: NR Range: NR SD: 12.8	47(56.3)	NR	Mean: 166 Med: NR Range: NR SD: 25	LBBB :NR RBBB: 10(11.8) IVCD: NR PBBBlock: NR	II: 85(100)	Mean: 24.4 Med: NR Range: NR SD: 6.6	Creat: NR GFR: NR

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Higgins,2003 ⁴⁰	Arm 1(CRT):245	F: 37(15) NR	Mean: 66 Med: NR Range: NR SD: 11	NR(67)	NR	Mean: 160 Med: NR Range: NR SD: 27	LBBB :NR(54) RBBB: NR(14) IVCD: NR(32) PBBBlock: NR	II: NR(32) III: NR(60) IV: NR(8)	Mean: 21 Med: NR Range: NR SD: 6	Creat: NR GFR: NR
	Arm 2(No CRT):245	F: 42(17) NR	Mean: 66 Med: NR Range: NR SD: 11	NR(71)	NR	Mean: 156 Med: NR Range: NR SD: 26	LBBB :NR(55) RBBB: NR(12) IVCD: NR(33) PBBBlock: NR	II: NR(33) III: NR(57) IV: NR(10)	Mean: 21 Med: NR Range: NR SD: 6	Creat: NR GFR: NR
Moss,2009 ⁹ MADIT CRT	Arm 1(ICD):731	F: 178(24.4) W:657/724(90.7) AA:56/724(7.7) O:11/724(1 .5)	Mean: 64 Med: NR Range: NR SD: 11	401(54.9)	90/717(12. 6)	Mean: NR Med: NR Range: NR SD: NR	LBBB :520/729(71.3) RBBB: 92/729(12.6) IVCD: NR PBBBlock: NR	NR	Mean: 24 Med: NR Range: NR SD: 5	Creat: 1.2mg/dl GFR: NR
	Arm 2(CRT- D):1089	F: 275(25.3) W:979/108 3(90.4) AA:87/1083 (8) O:17/1083(1.6)	Mean: 65 Med: NR Range: NR SD: 11	598(55)	118/1063(1 1.1)	Mean: NR Med: NR Range: NR SD: NR	LBBB :761/1088(69. 9) RBBB: 136/1088(12. 5) IVCD: NR PBBBlock: NR	NR	Mean: 24 Med: NR Range: NR SD: 5	Creat: 1.2mg/dl GFR: NR

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Diab, 2011 ³⁸	Arm 1(CRT-D):27	F: 6(22.2) NR	Mean: 65 Med: NR Range: NR SD: 8	15	NR	Mean: 159 Med: NR Range: NR SD: 17	NR	II: NR(25) III: 92.6	Mean: 22 Med: NR Range: NR SD: 7	Creat: NR GFR: NR
	Arm 2(Mechanical dyssynchrony absent based on echo/TDI criteria):46	F: 5(10.9) NR	Mean: 66 Med: NR Range: NR SD: 11	36	NR	Mean: 138 Med: NR Range: NR SD: 18	NR	II: NR(41) III: 89.1	Mean: 26 Med: NR Range: NR SD: 5	Creat: NR GFR: NR
	Arm 3(CRT-D from mechanical dyssynchrony absent based on echo/TDI criteria):24	F: 3(12.5) NR	Mean: 67 Med: NR Range: NR SD: 7	17	NR	Mean: 134 Med: NR Range: NR SD: 15	NR	II: NR(21) III: 87.5	Mean: 25 Med: NR Range: NR SD: 5	Creat: NR GFR:NR
	Arm 4(ICD from mechanical dyssynchrony absent based on echo/TDI criteria):22	F: 2(9.1) NR	Mean: 65 Med: NR Range: NR SD: 13	16	NR	Mean: 142 Med: NR Range: NR SD: 20	LBBB :NR RBBB: NR IVCD: NR PBBBlock: NR	II: NR(17) III: 77.3	Mean: 27 Med: NR Range: NR SD: 6	Creat: NR GFR: NR
Tompkins, 2013 ²⁰ MADIT CRT Sub Study	Arm 1(ICD):87	F: 6(7) NR	Mean: 64.3 Med: NR Range: NR SD: 9.7	74(85)	NR	Mean: 150.5 Med: NR Range: NR SD: 13.8	LBBB :NA(NA) RBBB: 87(100) IVCD: NR PBBBlock: NR	I: 20(23)	Mean: 25 Med: NR Range: NR SD: 5	Creat: 1.3mg/dl GFR: NR

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	Arm 2(CRT-D LAFB):80	F: 7(9) NR	Mean: 68.2 Med: NR Range: NR SD: 9.9	69(86)	NR	Mean: 155.2 Med: NR Range: NR SD: 15.7	LBBB :NA(NA) RBBB: 80(100) IVCD: NR PBBBlock: NR	I: 17(21)	Mean: 25 Med: NR Range: NR SD: 5	Creat: 1.25mg/dl GFR: NR
	Arm 3(CRT-D non-LAFB):52	F: 5(10) NR	Mean: 63.5 Med: NR Range: NR SD: 11.3	47(90)	NR	Mean: 152.5 Med: NR Range: NR SD: 14	LBBB :NA(NA) RBBB: 52(100) IVCD: NR PBBBlock: NR	I: 9(17)	Mean: 26 Med: NR Range: NR SD: 5	Creat: 1.29mg/dl GFR: NR
Pinter,2009 ⁴²	Arm 1(CRT ON):36	F: 8(22.2) NR	Mean: 66.3 Med: NR Range: NR SD: 8.6	NR	6(16.7)	Mean: NR Med: NR Range: NR SD: NR	LBBB :NR RBBB: NR IVCD: NR PBBBlock: NR	NR	Mean: 24.2 (MUGA) 21.2 (ECHO) Med: NR Range: NR SD: 7.5	Creat: 121numol/ L GFR: NR
	Arm 2(CRT OFF):36	F: 7(19.4) NR	Mean: 66.1 Med: NR Range: NR SD: 8.8	NR	2(5.6)	Mean: NR Med: NR Range: NR SD: NR	NR	NR	Mean: 26.8 (MUGA) 24 (ECHO) Med: NR Range: NR SD: 8.4	Creat: 114numol/ L GFR: NR
Birnie,2013 ²³ RAFT Sub Study	Arm 1(ICD):904	F: 172(19) NR	Mean: 66.2 Med: Range: SD: 9.4	587(64.9)	115(12.7)	Mean: 158.3 Med: NR Range: NR SD: 24	LBBB :643(71.1) RBBB: 93(10.3) IVCD: 101(11.2)	II: 730(80.8) III: 174(19.2)	Mean: 22.6 Med: NR Range: NR SD: 5.1	Creat: NR GFR: 60.8ML/MI N/1.73M2

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							PBBBlock: 67(7.4)			
	Arm 2(ICD- CRT):894	F: 136(13.2) NR	Mean: 66.1 Med: Range: SD: 9.3	614(68.7)	114(12.8)	Mean: 157 Med: NR Range: NR SD: 23.6	LBBB :652(72.9) RBBB: 68(7.6) IVCD: 106(11.9) PBBBlock: 68(7.6)	II: 708(79.2) III: 186(20.8)	Mean: 22.6 Med: NR Range: NR SD: 5.4	Creat: NR GFR: 59.5ML/MI N/1.73M2
Arshad,2011 ¹⁰ MADIT CRT Sub Study	Arm 1(ICD):731	F: 178(24.4) W:657/724(90.7) AA:56/724(7.7) O:11/724(1 .5)	Mean: 64 Med: NR Range: NR SD: 11	401(54.9)	90/717(12. 6)	Mean: NR Med: NR Range: NR SD: NR	LBBB :520/729(71.3) RBBB: 92/729(12.6) IVCD: NR PBBBlock: NR	NR	Mean: 24 Med: NR Range: NR SD: NR	Creat: 1.2mg/dl GFR: NR
	Arm 2(CRT- D):1089	F: 275(25.3) W:979/108 3(90.4) AA:87/1083 (8) O:17/1083(1.6)	Mean: 65 Med: NR Range: NR SD: 11	598(55)	118/1063(1 1.1)	Mean: NR Med: NR Range: NR SD: NR	LBBB :761/1088(69. 9) RBBB: 136/1088(12. 5) IVCD: NR PBBBlock: NR	NR	Mean: 24 Med: NR Range: NR SD: NR	Creat: 1.2mg/dl GFR: NR

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Zareba,2011 ²¹ MADIT CRT Sub Study	Arm 1(ICD):731	F: 178(24.4) W:657/724(90.7) AA:56/724(7.7) O:11/724(1 .5)	Mean: 64 Med: NR Range: NR SD: 11	401(54.9)	90/717(12. 6)	Mean: NR Med: NR Range: NR SD: NR	LBBB :520/729(71.3) RBBB: 92/729(12.6) IVCD: NR PBBBlock: NR	NR	Mean: 24 Med: NR Range: NR SD: NR	Creat: 1.2mg/dl GFR: NR
	Arm 2(CRT- D):1089	F: 275(25.3) W:979/108 3(90.4) AA:87/1083 (8) O:17/1083(1.6)	Mean: 65 Med: NR Range: NR SD: 11	598(55)	118/1063(1 1.1)	Mean: NR Med: NR Range: NR SD: NR	LBBB :761/1088(69. 9) RBBB: 136/1088(12. 5) IVCD: NR PBBBlock: NR	NR	Mean: 24 Med: NR Range: NR SD: NR	Creat: 1.2mg/dl GFR: NR
Barsheshet,201 1 ¹¹ MADIT CRT Sub Study	Arm 1(ICD):731	F: 178(24.4) W:657/724(90.7) AA:56/724(7.7) O:11/724(1 .5)	Mean: 64 Med: NR Range: NR SD: 11	401(54.9)	90/717(12. 6)	Mean: NR Med: NR Range: NR SD: NR	LBBB :520/729(71.3) RBBB: 92/729(12.6) IVCD: NR PBBBlock: NR	NR	Mean: 24 Med: NR Range: NR SD: NR	Creat: 1.2mg/dl GFR: NR
	Arm 2(CRT- D):1089	F: 275(25.3) W:979/108 3(90.4) AA:87/1083	Mean: 65 Med: NR Range: NR SD: 11	598(55)	118/1063(1 1.1)	Mean: NR Med: NR Range: NR SD: NR	LBBB :761/1088(69. 9) RBBB: 136/1088(12. 5) IVCD: NR PBBBlock:	NR	Mean: 24 Med: NR Range: NR SD: NR	Creat: 1.2mg/dl GFR: NR

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		(8) O:17/1083(1.6)					NR			
Lozano,2000 ⁴¹	Arm 1(BV Pacing):109	F: NR	Mean: NR Med: NR Range: NR SD: NR	NR	NR	Mean: NR Med: NR Range: NR SD: NR	NR	NR	Mean: Med: Range: SD:	Creat: NR GFR: NR
	Arm 2(No Pacing):113	F: NR	Mean: NR Med: NR Range: NR SD: NR	NR	NR	Mean: NR Med: NR Range: NR SD: NR	NR	NR	Mean: Med: Range: SD:	Creat: NR GFR: NR
	Overall(Total): 222	F: 38(17) NR	Mean: 65 Med: NR Range: NR SD: 10	71(32)	NR	Mean: NR Med: NR Range: NR SD: NR	NR	II: 78(35) III: 127(57) IV: 18(8)	Mean: 22 Med: Range: SD: 7	Creat: NR GFR: NR
Goldenberg, 2014 ¹³	Arm 1(ICD): 327	F: 72(23) NR	Mean: NR Med: NR Range: NR SD: NR	166(51)	NR	NR	NR	I: 51(16)	NR	Creat: NR GFR: NR
	Arm 2(CRTD): 327	F: 128(24) NR	Mean: NR Med: NR Range: NR SD: NR	279(53)	NR	NR	NR	I: 73(14)	NR	Creat: NR GFR: NR

F-Female, W-White, AA-African American, O-Others, NR-Not Reported, SD-Standard Deviation, Med-Median, n-Number, LBBB-Left Bundle Branch Block, RBBB-Right, Bundle Branch Block, IVCD-Intra Ventricular Conduction Delay, PBBBlock-Paced Bundle Branch Block, NYHA-New York Heart Association, LVEF-Left Ventricular Ejection Fraction, GFR-Glomerular Filtration Rate